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**1.274 github.com/lestrrat-go/httpc 1.0.6**

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**1.534 go.opentelemetry.io/otel/sdk 1.35.0**

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**1.535 shortuuid 4.2.0**

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**1.536 go.opentelemetry.io/contrib/detectors/gcp 1.35.0**

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**1.537 github.com/lithammer/shortuuid/v4 4.2.0**

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**1.538 github.com/googlecloudplatform/opentelemetry-operations-go/exporter/metric 0.51.0**

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**1.539 [github.com/minio/mux](https://github.com/minio/mux) 1.9.2**  
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**1.543 term 0.31.0**  
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**1.546 prometheus-client-model 0.6.2**  
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**1.547 pierrec-lz4 4.1.22**  
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**1.550 minio-go 7.0.90**  
1.550.1 Available under license  
**1.551 madmin-go 3.0.107-0.20250415152934-4b504b82db63**  
1.551.1 Available under license  
**1.552 prom2json 1.4.2**  
1.552.1 Available under license  
**1.553 open-ldap 2.5.19+dfsg-0ubuntu0.22.04.1**  
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**1.554 libldap-2.5-0 2.5.19+dfsg-0ubuntu0.22.04.1**  
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1.555.1 Available under license  
**1.556 prometheus 0.303.0**  
1.556.1 Available under license  
**1.557 [github.com/minio/madmin-go](https://github.com/minio/madmin-go)/v3 3.0.109**  
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## **1.558 madmin-go 3.0.109**

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## **1.559 github.com/minio/madmin-go/v3 3.0.107-0.20250415152934-4b504b82db63**

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## **1.560 google-cloud-go 0.118.0**

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## **1.561 github.com/go-sql-driver/mysql 1.9.0**

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## **1.562 github.com/beevik/ntp 1.4.3**

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## 1.3 bytebufferpool 1.0.0

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```

Aamir Khan <syst3m.w0rm@gmail.com>  
Aaron Cannon <cannona@fireantproductions.com>  
Aaron France <aaron.l.france@gmail.com>  
Aaron Jacobs <jacobsa@google.com>  
Aaron Kemp <kemp.aaron@gmail.com>  
Aaron Stein <aaronstein12@gmail.com>  
Aaron Torres <tcboox@gmail.com>  
Aaron Zinman <aaron@azinman.com>  
Aarti Parikh <aarti.parikh@gmail.com>  
Abdullah Al Maruf <mymail.maruf@gmail.com>  
Abe Haskins <abeisgreat@abeisgreat.com>  
Abhinav Gupta <abhinav.g90@gmail.com>  
Adam Azarchs <adam.azarchs@10xgenomics.com>  
Adam Bender <abender@google.com>  
Adam Eijdenberg <adam@continusec.com>  
Adam Harvey <aharvey@php.net>  
Adam Kisala <adam.kisala@gmail.com>  
Adam Langley <agl@golang.org>  
Adam Medzinski <adam.medzinski@gmail.com>  
Adam Shannon <adamkshannon@gmail.com>  
Adam Sindelar <adamsh@google.com>  
Adam Thomason <athomason@gmail.com>  
Adam Woodbeck <adam@woodbeck.net>  
Aditya Mukerjee <dev@chimeracoder.net>  
Adrian Hesketh <adrianhesketh@hushmail.com>  
Adrian  
Nos <nos.adrian@gmail.com>  
Adrian O'Grady <elpollouk@gmail.com>  
Adrien Bustany <adrien-xx-google@bustany.org>  
Adrien Petel <peteladrien@gmail.com>  
Acio Jnior <aeciodantasjunior@gmail.com>  
Aeneas Rekkas (arekkas) <aeneas@ory.am>  
Afanasev Stanislav <phpprogger@gmail.com>  
Agis Anastasopoulos <agis.anast@gmail.com>  
Agniva De Sarker <agnivade@yahoo.co.in>  
Ahmed Wahed <oneofone@gmail.com>  
Ahmet Alp Balkan <ahmethb@google.com>  
Ahmet Soormally <ahmet@mangomm.co.uk>  
Ahmy Yulrizka <yulrizka@gmail.com>  
Aiden Scandella <ai@uber.com>  
Ainar Garipov <gugl.zadolbal@gmail.com>  
Aishraj Dahal <aishraj@users.noreply.github.com>  
Akhil Indurti <contact@akhilindurti.com>  
Akihiro Suda <suda.kyoto@gmail.com>  
Akshat Kumar <seed@mail.nanosouffle.net>  
Alan Braithwaite <alan@ipaddr.org>  
Alan Donovan <adonovan@google.com>

Alan Shreve <alan@inconshreveable.com>  
Albert Nigmatzianov <albertnigma@gmail.com>  
Albert Strasheim <fullung@gmail.com>  
Albert Yu <yukinying@gmail.com>  
Alberto Bertogli <albertito@blitiri.com.ar>  
Alberto  
Donizetti <alb.donizetti@gmail.com>  
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>  
Aleksa Sarai <cyphar@cyphar.com>  
Aleksandar Dezelin <dezelin@gmail.com>  
Aleksandr Lukinykh <a.lukinykh@xsolla.com>  
Aleksandr Razumov <ar@cydev.ru>  
Alekseev Artem <a.artem060@gmail.com>  
Alessandro Arzilli <alessandro.arzilli@gmail.com>  
Alessandro Baffa <alessandro.baffa@gmail.com>  
Alex A Skinner <alex@lx.lc>  
Alex Brainman <alex.brainman@gmail.com>  
Alex Bramley <abramley@google.com>  
Alex Browne <stephenalexbrowne@gmail.com>  
Alex Carol <alex.carol.c@gmail.com>  
Alex Jin <toalexjin@gmail.com>  
Alex Kohler <alexjohnkohler@gmail.com>  
Alex Myasoedov <msoedov@gmail.com>  
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>  
Alex Schroeder <alex@gnu.org>  
Alex Sergeyev <abc@alexsergeyev.com>  
Alex Vaghin <crhyme@google.com>  
Alexander Demakin <alexander.demakin@gmail.com>  
Alexander Dring <email@alex.d.ch>  
Alexander F Rdseth <alexander.rodseth@appeartv.com>  
Alexander  
Guz <kalimatas@gmail.com>  
Alexander Kauer <alexander@affine.space>  
Alexander Kucherenko <alxkchr@gmail.com>  
Alexander Larsson <alexander.larsson@gmail.com>  
Alexander Menzhinsky <amenzhinsky@gmail.com>  
Alexander Morozov <lk4d4math@gmail.com>  
Alexander Neumann <alexander@bumper.de>  
Alexander Orlov <alexander.orlov@loxal.net>  
Alexander Pantyukhin <apantykhin@gmail.com>  
Alexander Polcyn <apolcyn@google.com>  
Alexander Reece <awreece@gmail.com>  
Alexander Surma <surma@surmair.de>  
Alexander Zhavnerchik <alex.vizor@gmail.com>  
Alexander Zillion <alex@alexzillion.com>  
Alexander Zolotov <goldifit@gmail.com>  
Alexandre Cesaro <alexandre.cesaro@gmail.com>  
Alexandre Fiori <fiorix@gmail.com>

Alexandre Maari <draeron@gmail.com>  
Alexandre Normand <alexandre.normand@gmail.com>  
Alexandre Parentea <aubonbeurre@gmail.com>  
Alexandre Viau <alexandre@alexandreviau.net>  
Alexandru Mooi <brtznr@gmail.com>  
Alexei Sholik <alcosholik@gmail.com>  
Alexey Alexandrov <aalexand@google.com>  
Alexey Borzenkov  
<snaury@gmail.com>  
Alexey Naidonov <alexey.naidyonov@gmail.com>  
Alexey Neganov <neganovalexey@gmail.com>  
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>  
Alexis Hildebrandt <surryhill@gmail.com>  
Alexis Hunt <lexer@google.com>  
Alexis Imperial-Legrand <ail@google.com>  
Ali Rizvi-Santiago <arizvisa@gmail.com>  
Aliaksandr Valialkin <valyala@gmail.com>  
Alif Rachmawadi <subosito@gmail.com>  
Allan Simon <allan.simon@supinfo.com>  
Alok Menghrajani <alok.menghrajani@gmail.com>  
Aman Gupta <aman@tmm1.net>  
Amir Mohammad Saied <amir@gluegadget.com>  
Amr Mohammed <merodiro@gmail.com>  
Amrut Joshi <amrut.joshi@gmail.com>  
Anand K. Mistry <anand@mistry.ninja>  
Anders Pearson <anders@columbia.edu>  
Andr Carvalho <asantostc@gmail.com>  
Andre Nathan <andrenth@gmail.com>  
Andrea Nodari <andrea.nodari91@gmail.com>  
Andrea Spadaccini <spadaccio@google.com>  
Andreas Auernhammer <aead@mail.de>  
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>  
Andreas Litt <andreas.litt@gmail.com>  
Andrei Gherzan <andrei@resin.io>  
Andrei  
Korzhevskii <a.korzhevskiy@gmail.com>  
Andrei Tudor Clin <mail@acln.ro>  
Andrei Vieru <euvieru@gmail.com>  
Andres Erbsen <andreser@google.com>  
Andres Lowrie <andres.lowrie@gmail.com>  
Andrew Austin <andrewacht@gmail.com>  
Andrew Balholm <andybalholm@gmail.com>  
Andrew Benton <andrewmbenton@gmail.com>  
Andrew Bonventre <andybons@chromium.org>  
Andrew Braunstein <awbraunstein@gmail.com>  
Andrew Bursavich <abursavich@gmail.com>  
Andrew Ekstedt <andrew.ekstedt@gmail.com>  
Andrew Etter <andrew.etter@gmail.com>



Andrew Gerrand <adg@golang.org>  
Andrew Harding <andrew@spacemonkey.com>  
Andrew Jackura <ajackura@google.com>  
Andrew Lutomirski <andy@luto.us>  
Andrew Pilloud <andrewpilloud@igneoussystems.com>  
Andrew Pogrebnoy <absourd.noise@gmail.com>  
Andrew Poydence <apoydence@pivotal.io>  
Andrew Pritchard <awpritchard@gmail.com>  
Andrew Radev <andrey.radev@gmail.com>  
Andrew Skiba <skibaa@gmail.com>  
Andrew Stribblehill <ads@wompom.org>  
Andrew Szeto <andrew@jabagawee.com>  
Andrew Werner <andrew@upthere.com>  
<awerner32@gmail.com>  
Andrew Wilkins <axwalk@gmail.com>  
Andrew Williams <williams.andrew@gmail.com>  
Andrey Mirtchovski <mirtchovski@gmail.com>  
Andrey Petrov <andrey.petrov@shazow.net>  
Andrii Soldatenko <andrii.soldatenko@gmail.com>  
Andrii Soluk <isoluchok@gmail.com>  
Andriy Lytvynov <lytvynov.a.v@gmail.com>  
Andrzej eel <andrii.zhezhel@gmail.com>  
Andy Balholm <andy@balholm.com>  
Andy Davis <andy@bigandian.com>  
Andy Finkensadt <afinkensadt@zynga.com>  
Andy Lindeman <andy@lindeman.io>  
Andy Maloney <asmaloney@gmail.com>  
Andy Walker <walkeraj@gmail.com>  
Andzej Maciusovic <andzej.maciusovic@gmail.com>  
Anfernee Yongkun Gui <anfernee.gui@gmail.com>  
Angelo Bulfone <mbulfone@gmail.com>  
Anh Hai Trinh <anh.hai.trinh@gmail.com>  
Anit Gandhi <anitgandhi@gmail.com>  
Ankit Goyal <ankit3goyal@gmail.com>  
Anmol Sethi <anmol@aubble.com>  
Anschel Schaffer-Cohen <anschelsc@gmail.com>  
Anthony Alves <cvballa3g0@gmail.com>  
Anthony Canino <anthony.canino1@gmail.com>  
Anthony Eufemio <anthony.eufemio@gmail.com>  
Anthony  
Fok <foka@debian.org>  
Anthony Martin <ality@pbrane.org>  
Anthony Sottile <asottile@umich.edu>  
Anthony Starks <ajstarks@gmail.com>  
Anthony Voutas <voutasaurus@gmail.com>  
Anthony Woods <awoods@raintank.io>  
Antoine GIRARD <sapk@sapk.fr>  
Antoine Martin <antoine97.martin@gmail.com>

Anton Gyllenberg <anton@iki.fi>  
Antonin Amand <antonin.amand@gmail.com>  
Antonio Antelo <aantelov87@gmail.com>  
Antonio Bibiano <antbbn@gmail.com>  
Antonio Murdaca <runcom@redhat.com>  
Antonio Troina <thoeni@gmail.com>  
Apisak Darakananda <pongad@gmail.com>  
Aram Hvrneanu <aram@mgk.ro>  
Areski Belaid <areski@gmail.com>  
Ariel Mashraki <ariel@mashraki.co.il>  
Arkadi Pyuro <arkadi@google.com>  
Arlo Breault <arlolra@gmail.com>  
Arnaud Ysmal <arnaud.ysmal@gmail.com>  
Arne Hormann <arnehormann@gmail.com>  
Arnout Engelen <arnout@bzzt.net>  
Aron Nopanen <aron.nopanen@gmail.com>  
Arthur Fabre <arthur@arthurfabre.com>  
Arthur Khashaev <arthur@khashaev.ru>  
Artyom Pervukhin <artyom.pervukhin@gmail.com>  
Arvinth Rajesh Tamilmani <art@a-30.net>  
Ashish  
Gandhi <ag@ashishgandhi.org>  
Asim Shankar <asimshankar@gmail.com>  
Atin Malaviya <amalaviy@akamai.com>  
Ato Araki <ato.araki@gmail.com>  
Audrey Lim <audreylh@gmail.com>  
Audrius Butkevicius <audrius.butkevicius@gmail.com>  
Augusto Roman <aroman@gmail.com>  
Aulus Egnatius Varialus <varialus@gmail.com>  
Aurlien Rainone <aurelien.rainone@gmail.com>  
Austin Clements <austin@google.com> <aclements@csail.mit.edu>  
Avi Flax <avi@timehop.com>  
awaw fumin <awawfumin@gmail.com>  
Awn Umar <awn@cryptolosophy.io>  
Axel Wagner <axel.wagner.hh@googlemail.com>  
Ayanamist Yang <ayanamist@gmail.com>  
Aymerick Jhanne <aymerick@jehanne.org>  
Azat Kaumov <kaumov.a.r@gmail.com>  
Baiju Muthukadan <baiju.m.mail@gmail.com>  
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>  
Balazs Lecz <leczb@google.com>  
Baokun Lee <nototon@gmail.com>  
Bartosz Grzybowski <melkorm@gmail.com>  
Bartosz Oler <brtsz@google.com>  
Bastian Ike <bastian.ike@gmail.com>  
Ben Burkert <ben@benburkert.com>  
Ben Eitzen <eitzenb@golang.org>  
Ben

Fried <ben.fried@gmail.com>  
Ben Haines <bhainesva@gmail.com>  
Ben Hoyt <benhoyt@gmail.com>  
Ben Laurie <ben@links.org> <benl@google.com>  
Ben Lubar <ben.lubar@gmail.com>  
Ben Lynn <benlynn@gmail.com>  
Ben Olive <sionide21@gmail.com>  
Ben Schwartz <bemasc@google.com>  
Ben Shi <powerman1st@163.com>  
Benjamin Black <b@b3k.us>  
Benjamin Cable <cable.benjamin@gmail.com>  
Benjamin Hsieh <tanookiben@users.noreply.github.com>  
Benjamin Prosnitz <bprosnitz@google.com>  
Benjamin Wester <bwester@squareup.com>  
Benny Siegert <bsiegert@gmail.com>  
Benoit Sigoure <tsunanet@gmail.com>  
Berengar Lehr <Berengar.Lehr@gmx.de>  
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>  
Bill O'Farrell <billo@ca.ibm.com>  
Bill Prin <waprin@google.com>  
Bill Thiede <couchmoney@gmail.com>  
Bill Zissimopoulos <billziss@navimatics.com>  
Billie Harold Cleek <bhcleek@gmail.com>  
Billy Lynch <wlynch@google.com>  
Bjorn Tillenius <bjorn@tillenius.me>  
Bjorn Tipling <bjorn.tipling@gmail.com>  
Blain Smith <rebelgeek@blainsmith.com>  
Blake  
Gentry <blakesgentry@gmail.com>  
Blake Mesdag <blakemesdag@gmail.com>  
Blake Mizerany <blake.mizerany@gmail.com>  
Blixt <me@blixt.nyc>  
Bob Briski <rbriski@gmail.com>  
Bob Potter <bobby.potter@gmail.com>  
Bobby DeSimone <bobbydesimone@gmail.com>  
Bobby Powers <bobbypowers@gmail.com>  
Boris Nagaev <nagaev@google.com>  
Borja Clemente <borja.clemente@gmail.com>  
Brad Burch <brad.burch@gmail.com>  
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>  
Brad Garcia <bgarcia@golang.org>  
Brad Jones <rbjones@google.com>  
Brad Morgan <brad@morgabra.com>  
Brad Whitaker <bwhitaker@fastly.com>  
Braden Bassingthwaite <bbassingthwaite@vendasta.com>  
Bradley Falzon <brad@teambrad.net>  
Brady Catherman <brady@gmail.com>  
Brady Sullivan <brady@bsull.com>

Brandon Bennett <bbennett@fb.com>  
Brandon Gilmore <varz@google.com>  
Brendan Daniel Tracey <tracey.brendan@gmail.com>  
Brendan O'Dea <bod@golang.org>  
Brett Cannon <bcannon@gmail.com>  
Brett Merrill <brett.j.merrill94@gmail.com>  
Brian Dellisanti <briandellisanti@gmail.com>  
Brian  
Downs <brian.downs@gmail.com>  
Brian G. Merrell <bgmerrell@gmail.com>  
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>  
Brian Kennedy <btkennedy@gmail.com>  
Brian Kessler <brian.m.kessler@gmail.com>  
Brian Ketelsen <bketelsen@gmail.com>  
Brian Slesinsky <skybrian@google.com>  
Brian Smith <ohohvi@gmail.com>  
Brian Starke <brian.starke@gmail.com>  
Bryan Alexander <Kozical@msn.com>  
Bryan C. Mills <bcmills@google.com>  
Bryan Chan <bryan.chan@ca.ibm.com>  
Bryan Ford <brynosaurus@gmail.com>  
Bulat Gaifullin <gaifullinbf@gmail.com>  
Burak Guven <bguven@gmail.com>  
Caine Tighe <arctanofyourface@gmail.com>  
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>  
Caleb Martinez <accounts@calebmartinez.com>  
Caleb Spare <cespare@gmail.com>  
Carl Chatfield <carlchatfield@gmail.com>  
Carl Henrik Lunde <chlunde@ifi.uio.no>  
Carl Jackson <carl@stripe.com>  
Carl Johnson <me@carlmjohnson.net>  
Carl Mastrangelo <notcarl@google.com>  
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>  
Carlisia  
Campos <carlisia@grokkingtech.io>  
Carlo Alberto Ferraris <cafxx@strayorange.com>  
Carlos Castillo <cookieo9@gmail.com>  
Carlos Cirello <uldericofilho@gmail.com>  
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>  
Carlos Souza <carloshrsouza@gmail.com>  
Carolyn Van Slyck <me@carolynvanslyck.com>  
Cary Hull <chull@google.com>  
Case Nelson <case.nelson@gmail.com>  
Casey Callendrello <squeed@gmail.com>  
Casey Marshall <casey.marshall@gmail.com>  
Catalin Nicutar <cnicutar@google.com>  
Catalin Patulea <catalinp@google.com>  
Cedric Staub <cs@squareup.com>

Cezar S Espinola <cezarsa@gmail.com>  
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>  
ChaiShushan <chaishushan@gmail.com>  
Channing Kimble-Brown <channing@golang.org>  
Charles Fenwick Elliott <Charles@FenwickElliott.io>  
Charles Kenney <charlesc.kenney@gmail.com>  
Charles L. Dorian <cldorian@gmail.com>  
Charles Lee <zombie.fml@gmail.com>  
Charles Weill <weill@google.com>  
Cherry Zhang <cherryyz@google.com>  
Chew Choon Keat <choonkeat@gmail.com>  
Cholerae  
Hu <choleraehyq@gmail.com>  
Chotepud Teo <AlexRouSg@users.noreply.github.com>  
Chris Ball <chris@printf.net>  
Chris Biscardi <chris@christopherbiscardi.com>  
Chris Broadfoot <cbro@golang.org>  
Chris Dollin <ehog.hedge@gmail.com>  
Chris Farmiloe <chrisfarms@gmail.com>  
Chris Hines <chris.cs.guy@gmail.com>  
Chris Howey <howeyc@gmail.com>  
Chris Hundt <hundt@google.com>  
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>  
Chris Kastorff <encryptio@gmail.com>  
Chris Lennert <calennert@gmail.com>  
Chris Liles <caveryliles@gmail.com>  
Chris Manghane <cmang@golang.org>  
Chris McGee <sirnewton\_01@yahoo.ca> <newton688@gmail.com>  
Chris Raynor <raynor@google.com>  
Chris Roche <rodaine@gmail.com>  
Chris Smith <chrsmith@users.noreply.github.com>  
Chris Stockton <chrisstocktonaz@gmail.com>  
Chris Zou <chriszou@ca.ibm.com>  
Christian Alexander <christian@linux.com>  
Christian Couder <chriscool@tuxfamily.org>  
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>  
Christian Pellegrin <chri@evolware.org>  
Christian  
R. Petrin <christianpetrin@gmail.com>  
Christine Hansmann <chhansmann@gmail.com>  
Christoffer Buchholz <christoffer.buchholz@gmail.com>  
Christoph Blecker <admin@toph.ca>  
Christoph Hack <christoph@tux21b.org>  
Christopher Cahoon <chris.cahoon@gmail.com>  
Christopher Guiney <chris@guiney.net>  
Christopher Henderson <chris@chenderson.org>  
Christopher Koch <chrisko@google.com>  
Christopher Nelson <nadiasvertex@gmail.com>

Christopher Nielsen <m4dh4tt3r@gmail.com>  
Christopher Redden <christopher.redden@gmail.com>  
Christopher Swenson <cswenson@google.com>  
Christopher Wedgwood <cw@f00f.org>  
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>  
Christy Perez <christy@linux.vnet.ibm.com>  
CL Sung <clsung@gmail.com> <cl\_sung@htc.com>  
Clment Chigot <clement.chigot@atos.net>  
Clement Skau <clementskau@gmail.com>  
Cody Oss <the.cody.oss@gmail.com>  
Colby Ranger <cranger@google.com>  
Colin Cross <ccross@android.com>  
Colin Edwards <colin@recursivepenguin.com>  
Colin Kennedy <moshen.colin@gmail.com>  
Colin  
Nelson <colnnelson@google.com>  
Colin Rice <clr@google.com>  
Conrad Irwin <conrad.irwin@gmail.com>  
Conrad Meyer <cemeyer@cs.washington.edu>  
Conrado Gouvea <conradopl@gmail.com>  
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>  
Corey Thomasson <cthom.lists@gmail.com>  
Cosmos Nicolaou <cnicolaou@google.com>  
Costin Chirvasuta <ctin@google.com>  
Craig Citro <craigcitro@google.com>  
Cristian Staretu <unclejacksons@gmail.com>  
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>  
Cyrill Schumacher <cyrrill@schumacher.fm>  
Daisuke Fujita <dtanshi45@gmail.com>  
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>  
Damian Gryski <dgryski@gmail.com>  
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>  
Damien Mathieu <42@dmathieu.com>  
Damien Neil <dneil@google.com>  
Damien Tournoud <damien@platform.sh>  
Dan Ballard <dan@mindstab.net>  
Dan Caddigan <goldcaddy77@gmail.com>  
Dan Callahan <dan.callahan@gmail.com>  
Dan Harrington <harringtond@google.com>  
Dan  
Jacques <dnj@google.com>  
Dan Johnson <computerdruidd@google.com>  
Dan Peterson <dpiddy@gmail.com>  
Dan Pupius <dan@medium.com>  
Dan Sinclair <dan.sinclair@gmail.com>  
Danil de Kok <me@danieldk.eu>  
Daniel Fleischman <danielfleischman@gmail.com>  
Daniel Ingram <ingramds@appstate.edu>

Daniel Johansson <dajo2002@gmail.com>  
Daniel Kerwin <d.kerwin@gini.net>  
Daniel Krech <eikeon@eikeon.com>  
Daniel Lidn <daniel.liden.87@gmail.com>  
Daniel Mart <mvdan@mvdan.cc>  
Daniel Morsing <daniel.morsing@gmail.com>  
Daniel Nadasi <dnadasi@google.com>  
Daniel Nephin <dnephin@gmail.com>  
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>  
Daniel Skinner <daniel@dasa.cc>  
Daniel Speichert <daniel@speichert.pl>  
Daniel Theophanes <kardianos@gmail.com>  
Daniel Upton <daniel@floppy.co>  
Daniela Petruzalek <daniela.petruzalek@gmail.com>  
Danny Rosseau <daniel.rosseau@gmail.com>  
Daria Kolistratova <daria.kolistratova@intel.com>  
Darien Raymond <admin@v2ray.com>  
Darren Elwood <darren@textnode.com>  
Darshan Parajuli <parajulidarshan@gmail.com>  
Datong  
Sun <dndx@idndx.com>  
Dave Borowitz <dborowitz@google.com>  
Dave Bort <dbort@golang.org>  
Dave Cheney <dave@cheney.net>  
Dave Day <djd@golang.org>  
Dave Grijalva <dgrijalva@ngmoco.com>  
Dave MacFarlane <driusan@gmail.com>  
Dave Russell <forfuncsake@gmail.com>  
David Anderson <danderson@google.com>  
David Barnett <dbarnett@google.com>  
David Benjamin <davidben@google.com>  
David Brophy <dave@brophy.uk>  
David Brgin <676c7473@gmail.com>  
David Calavera <david.calavera@gmail.com>  
David Carlier <devnexen@gmail.com>  
David Chase <drchase@google.com>  
David Covert <davidhcovert@gmail.com>  
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>  
David du Colombier <0intro@gmail.com>  
David Forsythe <dforsythe@gmail.com>  
David G. Andersen <dave.andersen@gmail.com>  
David Glasser <glasser@meteor.com>  
David Heuschmann <heuschmann.d@gmail.com>  
David Howden <dhowden@gmail.com>  
David Hubbard <dsp@google.com>  
David Jakob Fritz <david.jakob.fritz@gmail.com>  
David

Jones <dxjones@gmail.com>  
David Lazar <lazard@golang.org>  
David Leon Gil <coruus@gmail.com>  
David McLeish <davemc@google.com>  
David Ndungu <dnjuguna@gmail.com>  
David NewHamlet <david@newhamlet.com>  
David Presotto <presotto@gmail.com>  
David R. Jenni <david.r.jenni@gmail.com>  
David Sansome <me@davidsansome.com>  
David Stainton <dstainton415@gmail.com>  
David Symonds <dsymonds@golang.org>  
David Thomas <davidthomas426@gmail.com>  
David Timm <dtimm@pivotal.io>  
David Titarenco <david.titarenco@gmail.com>  
David Tolpin <david.tolpin@gmail.com>  
David Url <david@urld.io>  
David Volquartz Lebech <david@lebech.info>  
David Wimmer <davidlwimmer@gmail.com>  
Davies Liu <davies.liu@gmail.com>  
Davor Kapsa <davor.kapsa@gmail.com>  
Dean Prichard <dean.prichard@gmail.com>  
Deepak Jois <deepak.jois@gmail.com>  
Denis Bernard <db047h@gmail.com>  
Denis Brandolini <denis.brandolini@gmail.com>  
Denis Nagorny <denis.nagorny@intel.com>  
Dennis Kuhnert <mail.kuhnert@gmail.com>  
Denys Honsiorovskyi <honsiorovskyi@gmail.com>  
Denys  
Smirnov <denis.smirnov.91@gmail.com>  
Derek Buitenhuis <derek.buitenhuis@gmail.com>  
Derek Che <drc@yahoo-inc.com>  
Derek McGowan <derek@mcgstyle.net>  
Derek Parker <parkerderek86@gmail.com>  
Derek Shockey <derek.shockey@gmail.com>  
Dev Ojha <dojha12@gmail.com>  
Dev Zhoujun <dev.zhoujun@gmail.com>  
Devon H. O'Dell <devon.odell@gmail.com>  
Dhaivat Pandit <dhaivatpandit@gmail.com>  
Dhananjay Nakrani <dhananjayn@google.com>  
Dhiru Kholia <dhiru.kholia@gmail.com>  
Dhruvdudd Jadhav <dhrvdudd.jadhav@gmail.com>  
Di Xiao <dixiao@google.com>  
Didier Spezia <didier.06@gmail.com>  
Diego Siqueira <diego9889@gmail.com>  
Dieter Plaetinck <dieter@raintank.io>  
Dimitri Sokolyuk <sokolyuk@gmail.com>  
Dimitri Tcaciuc <dtcaciuc@gmail.com>  
Dina Garmash <dgrmsh@gmail.com>



Diogo Pinela <diogoid7400@gmail.com>  
Dirk Gadsden <dirk@esherido.com>  
Diwaker Gupta <diwakergupta@gmail.com>  
Dmitri Popov <operator@cv.dp-net.com>  
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>  
Dmitriy Cherchenko <dcherchenko@gmail.com>  
Dmitriy  
Dudkin <dudkin.dmitriy@gmail.com>  
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>  
Dmitriy Vyukov <dvyukov@google.com>  
Dmitry Chestnykh <dchest@gmail.com>  
Dmitry Doroginin <doroginin@gmail.com>  
Dmitry Neverov <dmitry.neverov@gmail.com>  
Dmitry Savintsev <dsavints@gmail.com>  
Dmitry Yakunin <nonamezeil@gmail.com>  
Domen Ipavec <domen@ipavec.net>  
Dominic Green <dominicgreen1@gmail.com>  
Dominik Honnef <dominik.honnef@gmail.com>  
Dominik Vogt <vogt@linux.vnet.ibm.com>  
Don Byington <don@dbyington.com>  
Donald Huang <don.hcd@gmail.com>  
Dong-hee Na <donghee.na92@gmail.com>  
Donovan Hide <donovanhide@gmail.com>  
Doug Anderson <douga@google.com>  
Doug Fawley <dfawley@google.com>  
Douglas Danger Manley <doug.manley@gmail.com>  
Drew Flower <drewvanstone@gmail.com>  
Drew Hintz <adhintz@google.com>  
Duncan Holm <mail@frou.org>  
Dustin Carlino <dcarlino@google.com>  
Dustin Herbison <djherbis@gmail.com>  
Dustin Long <dustmop@gmail.com>  
Dustin Sallings <dsallings@gmail.com>  
Dustin Shields-Cloues  
<dcloues@gmail.com>  
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>  
Dylan Waits <dylan@waits.io>  
Edan Bedrik <3d4nb3@gmail.com>  
Eden Li <eden.li@gmail.com>  
Eduard Urbach <e.urbach@gmail.com>  
Eduardo Ramalho <eduardo.ramalho@gmail.com>  
Edward Muller <edwardam@interlix.com>  
Egon Elbre <egonelbre@gmail.com>  
Ehren Kret <ehren.kret@gmail.com>  
Eitan Adler <lists@eitanadler.com>  
Eivind Uggedal <eivind@uggedal.com>  
Elbert Fliek <efliek@gmail.com>  
Eldar Rakhimberdin <ibeono@gmail.com>

Elena Grahovac <elena@grahovac.me>  
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>  
Elliot Morrison-Reed <elliottmr@gmail.com>  
Emerson Lin <linyintor@gmail.com>  
Emil Hessman <emil@hessman.se>  
Emil Mursalimov <mursalimovemeel@gmail.com>  
Emilien Kenler <hello@emilienkenler.com>  
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>  
Eno Compton <enocom@google.com>  
Eoghan Sherry <ejsherry@gmail.com>  
Eric Chiang <eric.chiang.m@gmail.com>  
Eric Clark <zerohp@gmail.com>  
Eric Daniels <eric@erdaniels.com>  
Eric  
Engestrom <eric@engestrom.ch>  
Eric Garrido <ekg@google.com>  
Eric Koleda <ekoleda+devrel@google.com>  
Eric Lagergren <ericscottlagergren@gmail.com>  
Eric Milliken <emilliken@gmail.com>  
Eric Pauley <eric@pauley.me>  
Eric Ponce <tricokun@gmail.com>  
Eric Rescorla <ekr@rtfm.com>  
Eric Roshan-Eisner <eric.d.eisner@gmail.com>  
Eric Rykwalder <e.rykwalder@gmail.com>  
Erik Aigner <aigner.erik@gmail.com>  
Erik Dubbelboer <erik@dubbelboer.com>  
Erik St. Martin <alakriti@gmail.com>  
Erik Staab <estaab@google.com>  
Erik Westrup <erik.westrup@gmail.com>  
Erin Masatsugu <erin.masatsugu@gmail.com>  
Ernest Chiang <ernest\_chiang@htc.com>  
Erwin Oegema <blablaechthema@hotmail.com>  
Esko Luontola <esko.luontola@gmail.com>  
Ethan Burns <eaburns@google.com>  
Ethan Miller <eamiller@us.ibm.com>  
Euan Kemp <euank@euank.com>  
Eugene Kalinin <e.v.kalinin@gmail.com>  
Evan Broder <evan@stripe.com>  
Evan Brown <evanbrown@google.com>  
Evan Hicks <evan.hicks2@gmail.com>  
Evan Jones <ej@evanjones.ca>  
Evan Klitzke <evan@eklitzke.org>  
Evan Kroske  
<evankroske@google.com>  
Evan Martin <evan.martin@gmail.com>  
Evan Phoenix <evan@phx.io>  
Evan Shaw <chickencha@gmail.com>  
Evgeniy Polyakov <zbr@ioremap.net>

Ewan Chou <coocood@gmail.com>  
Ewan Valentine <ewan.valentine89@gmail.com>  
Eyal Posener <posener@gmail.com>  
Fabian Wickborn <fabian@wickborn.net>  
Fabian Zaremba <fabian@youreemail.eu>  
Fabrizio Milo <mistobaan@gmail.com>  
Faiyaz Ahmed <ahmedf@vmware.com>  
Fan Hongjian <fan.howard@gmail.com>  
Fangming Fang <fangming.fang@arm.com>  
Fannie Zhang <fannie.zhang@arm.com>  
Fatih Arslan <fatih@arslan.io>  
Fazal Majid <majid@apsalar.com>  
Fazlul Shahriar <fshahriar@gmail.com>  
Federico Bond <federicobond@gmail.com>  
Federico Simoncelli <fsimonce@redhat.com>  
Fedor Indutny <fedor@indutny.com>  
Felipe Oliveira <felipeweb.programador@gmail.com>  
Felix Geisendrfer <haimuiba@gmail.com>  
Felix Kollmann <fk@konsorten.de>  
Filip Gruszczyski <gruszczy@gmail.com>  
Filip Haglund <drathier@users.noreply.github.com>  
Filip Stanis <fstanis@google.com>  
Filippo Valsorda  
<filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>  
Firmansyah Adiputra <frm.adiputra@gmail.com>  
Florian Forster <octo@google.com>  
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>  
Florian Weimer <fw@deneb.enyo.de>  
Florin Patan <florinpatan@gmail.com>  
Folke Behrens <folke@google.com>  
Ford Hurley <ford.hurley@gmail.com>  
Francesc Campoy <campoy@golang.org>  
Francisco Claude <fclaude@recoded.cl>  
Francisco Rojas <francisco.rojas.gallegos@gmail.com>  
Francisco Souza <franciscossouza@gmail.com>  
Frank Schroeder <frank.schroeder@gmail.com>  
Frank Somers <fsomers@arista.com>  
Frederic Guillot <frederic.guillot@gmail.com>  
Frederick Kelly Mayle III <frederickmayle@gmail.com>  
Frederik Ring <frederik.ring@gmail.com>  
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>  
Fredrik Forsmo <fredrik.forsmo@gmail.com>  
Fredrik Wallgren <fredrik.wallgren@gmail.com>  
Frew Schmidt <github@frew.co>  
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>  
Frits van Bommel  
<fvbommel@gmail.com>  
Fumitoshi Ukai <ukai@google.com>

G. Hussain Chinoy <ghchinoy@gmail.com>  
Gaal Yahas <gaal@google.com>  
Gabrel Arthr Ptursson <gabriel@system.is>  
Gabriel Aszalos <gabriel.aszalos@gmail.com>  
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>  
Gabriel Russell <gabriel.russell@gmail.com>  
Gareth Paul Jones <gpj@foursquare.com>  
Garret Kelly <gdk@google.com>  
Garrick Evans <garrick@google.com>  
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>  
Gary Elliott <garyelliott@google.com>  
Gaurish Sharma <contact@aurishsharma.com>  
Gautham Thambidorai <gautham.dorai@gmail.com>  
Gauthier Jolly <gauthier.jolly@gmail.com>  
Geert-Johan Riemer <gjr19912@gmail.com>  
Genevieve Luyt <genevieve.luyt@gmail.com>  
Gengliang Wang <ltwnwgl@gmail.com>  
Geoff Berry <gberry.qdt@qualcommdatacenter.com>  
Geoffroy Lorieux <lorieux.g@gmail.com>  
Geon Kim <geon0250@gmail.com>  
Georg Reinke <guelfey@gmail.com>  
George Gkirtsou <ggirtsou@gmail.com>  
George Shammas <george@shamm.as> <georgyo@gmail.com>  
Gerasimos  
(Makis) Maropoulos <kataras2006@hotmail.com>  
Gerasimos Dimitriadis <gedimitr@gmail.com>  
Gergely Brautigam <skarlso777@gmail.com>  
Getulio Snchez <valentin2507@gmail.com>  
Gianguido Sora` <g.sora4@gmail.com>  
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>  
Giles Lean <giles.lean@pobox.com>  
Giovanni Bajo <rasky@develer.com>  
GitHub User @ajnrp (1688456) <ajnrp@users.noreply.github.com>  
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>  
GitHub User @as (8127015) <as.utf8@gmail.com>  
GitHub User @bgadrian (830001) <aditza8@gmail.com>  
GitHub User @bontequero (2674999) <bontequero@gmail.com>  
GitHub User @cch123 (384546) <buaa.cch@gmail.com>  
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>  
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>  
GitHub User @erifan (31343225) <eric.fang@arm.com>  
GitHub User @esell (9735165) <eujon.sellers@gmail.com>  
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>  
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>  
GitHub  
User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>  
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>  
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>

GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>  
GitHub User @OlgaVIPetrova (44112727) <OVPPetrova@gmail.com>  
GitHub User @pityonline (438222) <pityonline@gmail.com>  
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>  
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>  
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>  
GitHub User @tell-k (26263) <ffk2005@gmail.com>  
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>  
GitHub User @uropek (39370426) <uropek@gmail.com>  
Giulio Iotti <dullgiulio@gmail.com>  
Giulio Micheloni <giulio.micheloni@gmail.com>  
Giuseppe Valente <gvalente@arista.com>  
Gleb Stepanov <glebstepanov1992@gmail.com>  
Glenn Brown <glennb@google.com>  
Glenn Lewis <gmlewis@google.com>  
Gordon Klaus <gordon.klaus@gmail.com>  
Graham King  
<graham4king@gmail.com>  
Graham Miller <graham.miller@gmail.com>  
Grant Griffiths <ggp493@gmail.com>  
Greg Poirier <greg.istehbest@gmail.com>  
Greg Steuck <gneздо+github@google.com>  
Greg Ward <greg@gerg.ca>  
Grgoire Delattre <gregoire.delattre@gmail.com>  
Gregory Man <man.gregory@gmail.com>  
Guilherme Caruso <gui.martinscaruso@gmail.com>  
Guilherme Garnier <guilherme.garnier@gmail.com>  
Guilherme Goncalves <guilhermeaugustosg@gmail.com>  
Guilherme Rezende <guilhermebr@gmail.com>  
Guillaume J. Charmes <guillaume@charmest.net>  
Guobiao Mei <meiguobiao@gmail.com>  
Guoliang Wang <iamwgliang@gmail.com>  
Gustav Paul <gustav.paul@gmail.com>  
Gustav Westling <gustav@westling.xyz>  
Gustavo Franco <gustavorfranco@gmail.com>  
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>  
Gwenael Treguier <gwenn.kahz@gmail.com>  
Gyu-Ho Lee <gyuhox@gmail.com>  
H. brahim Gngr <igungor@gmail.com>  
Hajime Hoshi <hajimehoshi@gmail.com>  
Hallgrimur Gunnarsson <halg@google.com>  
HAMANO Tsukasa <hamano@osstech.co.jp>  
Han-Wen  
Nienhuys <hanwen@google.com>  
Hang Qian <hangqian90@gmail.com>  
Hanjun Kim <hallazzang@gmail.com>  
Harald Nordgren <haraldnordgren@gmail.com>  
Hari haran <hariharan.uno@gmail.com>

Hariharan Srinath <srinathh@gmail.com>  
Harley Laue <losinggeneration@gmail.com>  
Harry Moreno <morenoh149@gmail.com>  
Harshavardhana <hrshvardhana@gmail.com>  
Hauke Lffler <hloeffler@users.noreply.github.com>  
Hvard Haugen <havard.haugen@gmail.com>  
He Liu <liulonnie@gmail.com>  
Hector Chu <hectorchu@gmail.com>  
Hector Martin Cantero <hector@marcansoft.com>  
Henning Schmiedehausen <henning@schmiedehausen.org>  
Henrik Edwards <henrik.edwards@gmail.com>  
Henrik Hodne <henrik@hodne.io>  
Henry Adi Sumarto <henry.adisumarto@gmail.com>  
Henry Bubert <google@mindeco.de>  
Henry Chang <mr.changyuheng@gmail.com>  
Henry Clifford <h.a.clifford@gmail.com>  
Herbert Georg Fischer <herbert.fischer@gmail.com>  
Herbie Ong <herbie@google.com>  
Heschi Kreinick <heschi@google.com>  
Hidetatsu Yaginuma <ygnmhdt@gmail.com>  
Hilko Bengen <bengen@hilluzination.de>  
Hiroaki  
Nakamura <hnakamur@gmail.com>  
Hironao OTSUBO <motemen@gmail.com>  
Hiroshi Ioka <hirochachacha@gmail.com>  
Hitoshi Mitake <mitake.hitoshi@gmail.com>  
Holden Huang <ttyh061@gmail.com>  
Hong Ruiqi <hongruiqi@gmail.com>  
Hongfei Tan <feilengcui008@gmail.com>  
Hossein Sheikh Attar <hattar@google.com>  
Hsin Tsao <tsao@google.com>  
Hsin-Ho Yeh <yhh92u@gmail.com>  
Hu Keping <hukeping@huawei.com>  
Hugues Bruant <hugues.bruant@gmail.com>  
Huy Le <huy.dinh.le.89@gmail.com>  
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>  
Ian Cottrell <iancottrell@google.com>  
Ian Davis <nospam@iandavis.com>  
Ian Gudger <ian@loosescr.ws>  
Ian Haken <ihaken@netflix.com>  
Ian Kent <iankent85@gmail.com>  
Ian Lance Taylor <iant@golang.org>  
Ian Leue <ian@appboy.com>  
Ian Zapolsky <ianzapolsky@gmail.com>  
Ibrahim AshShohail <ibra.sho@gmail.com>  
Icarus Sparry <golang@icarus.freeuk.com>  
Iccha Sethi <icchasethi@gmail.com>  
Idora Shinatose <idora.shinatose@gmail.com>

Igor Bernstein <igorbernstein@google.com>  
Igor Dolzhikov  
<bluesriverz@gmail.com>  
Igor Vashyst <ivashyst@gmail.com>  
Igor Zhilianin <igor.zhilianin@gmail.com>  
Ilya Tocar <ilya.tocar@intel.com>  
INADA Naoki <songofacandy@gmail.com>  
Inanc Gumus <m@inanc.io>  
Ingo Gottwald <in.gottwald@gmail.com>  
Ingo Krabbe <ikrabbe.ask@gmail.com>  
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>  
Ioannis Georgoulas <geototti21@hotmail.com>  
Irfan Sharif <irfanmahmoudsharif@gmail.com>  
Irieda Noboru <irieda@gmail.com>  
Isaac Ardis <isaac.ardis@gmail.com>  
Isaac Wagner <ibw@isaacwagner.me>  
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>  
Issac Trotts <issactrotts@google.com>  
Ivan Babrou <ivan@cloudflare.com>  
Ivan Bertona <ivan.bertona@gmail.com>  
Ivan Krasin <krasin@golang.org>  
Ivan Kutuzov <arbrix@gmail.com>  
Ivan Markin <sw@nogoegst.net>  
Ivan Moscoso <moscoso@gmail.com>  
Ivan Sharavuev <shpiwan@gmail.com>  
Ivan Ukhov <ivan.ukhov@gmail.com>  
Ivy Evans <ivy@ivyevans.net>  
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>  
Jack  
Britton <jackxbritton@gmail.com>  
Jack Lindamood <jlindamo@justin.tv>  
Jacob Baskin <jbaskin@google.com>  
Jacob H. Haven <jacob@cloudflare.com>  
Jacob Hoffman-Andrews <github@hoffman-andrews.com>  
Jae Kwon <jae@tendermint.com>  
Jake B <doogie1012@gmail.com>  
Jakob Borg <jakob@nym.se>  
Jakob Weisblat <jakobw@mit.edu>  
Jakub ajka <jcajka@redhat.com>  
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>  
James Aguilar <jaguilar@google.com>  
James Bardin <j.bardin@gmail.com>  
James Chacon <jchacon@google.com>  
James Clarke <jrtc27@jrtc27.com>  
James Cowgill <James.Cowgill@imgtec.com>  
James Craig Burley <james-github@burleyarch.com>  
James David Chalfant <james.chalfant@gmail.com>  
James Fysh <james.fysh@gmail.com>

James Gray <james@james4k.com>  
James Hartig <fastest963@gmail.com>  
James Lawrence <jljatone@gmail.com>  
James Meneghello <rawrz0r@gmail.com>  
James Myers <jfmyers9@gmail.com>  
James Neve <jamesoneve@gmail.com>  
James P. Cooper <jamespcooper@gmail.com>  
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>  
James  
Schofield <james@shoeboxapp.com>  
James Smith <jrs1995@icloud.com>  
James Sweet <james.sweet88@googlemail.com>  
James Toy <nil@opensesame.st>  
James Treanor <jtreanor3@gmail.com>  
James Tucker <raggi@google.com>  
James Whitehead <jnwhiteh@gmail.com>  
Jamie Beverly <jamie.r.beverly@gmail.com>  
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>  
Jamie Kerr <jkerr113@googlemail.com>  
Jamie Liu <jamiliu@google.com>  
Jamie Stackhouse <contin673@gmail.com>  
Jamie Turner <jamwt@dropbox.com>  
Jamie Wilkinson <jaq@spacepants.org>  
Jamil Djadala <djadala@gmail.com>  
Jan Berktold <jan@berktold.co>  
Jan H. Hosang <jan.hosang@gmail.com>  
Jan Kratochvil <jan.kratochvil@redhat.com>  
Jan Lehnardt <jan@apache.org>  
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>  
Jan Newmarch <jan.newmarch@gmail.com>  
Jan Pilzer <jan.pilzer@gmx.de>  
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>  
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>  
Jared Culp <jculp14@gmail.com>  
Jaroslavas Poepko  
<jp@webmaster.ms>  
Jason A. Donenfeld <Jason@zx2c4.com>  
Jason Barnett <jason.w.barnett@gmail.com>  
Jason Buberel <jbuberel@google.com>  
Jason Chu <jasonchujc@gmail.com>  
Jason Del Ponte <delpontej@gmail.com>  
Jason Hall <jasonhall@google.com>  
Jason Keene <jasonkeene@gmail.com>  
Jason LeBrun <jblebrun@gmail.com>  
Jason Smale <jsmale@zendesk.com>  
Jason Travis <infomaniac7@gmail.com>  
Jason Wangsadinata <jwangsadinata@gmail.com>  
Javier Kohen <jkohen@google.com>



Javier Segura <javism@gmail.com>  
Jay Conrod <jayconrod@google.com>  
Jay Taylor <outtatime@gmail.com>  
Jay Weisskopf <jay@jayschwa.net>  
Jean de Klerk <deklerk@google.com>  
Jean-Andr Santoni <jean.andre.santoni@gmail.com>  
Jean-Francois Cantin <jfcantin@gmail.com>  
Jean-Marc Eurin <jmeurin@google.com>  
Jean-Nicolas Moal <jn.moal@gmail.com>  
Jed Denlea <jed@fastly.com>  
Jeet Parekh <jeetparekh96@gmail.com>  
Jeevanandam M <jeeva@myjeeva.com>  
Jeff (Zhefu) Jiang <jeffjiang@google.com>  
Jeff Craig <jeffcraig@google.com>  
Jeff Dupont <jeff.dupont@gmail.com>  
Jeff  
Hodges <jeff@somethingsimilar.com>  
Jeff Johnson <jrjohnson@google.com>  
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>  
Jeff Sickel <jas@corpus-callosum.com>  
Jeff Wendling <jeff@spacemonkey.com>  
Jeffrey H <jeffreyh192@gmail.com>  
Jelte Fennema <github-tech@jeltef.nl>  
Jens Frederich <jfrederich@gmail.com>  
Jeremiah Harmsen <jeremiah@google.com>  
Jeremy Banks <\_@jeremy.ca>  
Jeremy Canady <jcanady@gmail.com>  
Jeremy Jackins <jeremyjackins@gmail.com>  
Jeremy Schlatter <jeremy.schlatter@gmail.com>  
Jeroen Bobbeldijk <jerbob92@gmail.com>  
Jerrin Shaji George <jerrinsg@gmail.com>  
Jess Frazelle <me@jessfraz.com>  
Jesse Szwedko <jesse.szwedko@gmail.com>  
Jess Espino <jespinog@gmail.com>  
Jianing Yu <jnyu@google.com>  
Jianqiao Li <jianqiaoli@google.com>  
Jihyun Yu <yjh0502@gmail.com>  
Jim Cote <jfcote87@gmail.com>  
Jim Kingdon <jim@bolt.me>  
Jim McGrath <jimmc2@gmail.com>  
Jim Minter <jminter@redhat.com>  
Jimmy Frasche <soapboxcicero@gmail.com>  
Jimmy Zelinskie <jimmyzelinskie@gmail.com>  
Jin-wook Jeong <jeweljar@hanmail.net>  
Jingcheng  
Zhang <diogin@gmail.com>  
Jingguo Yao <yaojingguo@gmail.com>  
Jiong Du <londdevil@gmail.com>

Jirka Dank <dnk@mail.muni.cz>  
Jiulong Wang <jiulongw@gmail.com>  
Joakim Sernbrant <serbaut@gmail.com>  
Joe Bowbeer <joe.bowbeer@gmail.com>  
Joe Cortopassi <joe@joecortopassi.com>  
Joe Farrell <joe2farrell@gmail.com>  
Joe Harrison <joeazzers@gmail.com>  
Joe Henke <joed.henke@gmail.com>  
Joe Kyo <xunianzu@gmail.com>  
Joe Poirier <jdpoirier@gmail.com>  
Joe Richey <joerichey@google.com>  
Joe Shaw <joe@joeshaw.org>  
Joe Sylve <joe.sylve@gmail.com>  
Joe Tsai <joetsai@digital-static.net>  
Joel Sing <joel@sing.id.au> <jsing@google.com>  
Jol Stemmer <jstemmer@google.com>  
Joel Stemmer <stemmertech@gmail.com>  
Joey Geiger <jgeiger@users.noreply.github.com>  
Johan Brandhorst <johan.brandhorst@gmail.com>  
Johan Euphrosine <proppy@google.com>  
Johan Sageryd <j@1616.se>  
John Asmuth <jasmuth@gmail.com>  
John Beisley <huin@google.com>  
John C Barstow <jbowtie@amathaine.com>  
John DeNero <denero@google.com>  
John  
Dethridge <jcd@golang.org>  
John Gibb <johngibb@gmail.com>  
John Gilik <john@jgilik.com>  
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>  
John Howard Palevich <jack.palevich@gmail.com>  
John Jeffery <jjeffery@sp.com.au>  
John Jenkins <twodopeslaggy@gmail.com>  
John Leidegren <john.leidegren@gmail.com>  
John Newlin <jnewlin@google.com>  
John Potocny <johnp@vividcortex.com>  
John R. Lenton <jlenton@gmail.com>  
John Schnake <schnake.john@gmail.com>  
John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
Johnny Luo <johnnyluo1980@gmail.com>  
Jon Chen <jchen@justin.tv>  
Jonas Bernoulli <jonas@bernoul.li>  
Jonathan Allie <jonallie@google.com>  
Jonathan Amsterdam <jba@google.com>  
Jonathan Boule <jonathanboule@gmail.com>  
Jonathan Chen <dijonkitchen@users.noreply.github.com>  
Jonathan Feinberg <feinberg@google.com>

Jonathan Gold <jgold.bg@gmail.com>  
Jonathan Hseu <jhseu@google.com>  
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>  
Jonathan Nieder <jrn@google.com>  
Jonathan Pentecost  
<pentecostjonathan@gmail.com>  
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>  
Jonathan Rudenberg <jonathan@titanous.com>  
Jonathan Stacks <jonstacks13@gmail.com>  
Jonathan Wills <runningwild@gmail.com>  
Jongmin Kim <atomaths@gmail.com>  
Joonas Kuorilehto <joneskoo@derbian.fi>  
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>  
Jordan Krage <jmank88@gmail.com>  
Jordan Lewis <jordanthelewis@gmail.com>  
Jordan Rhee <jordanrh@microsoft.com>  
Jos Visser <josv@google.com>  
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>  
Joseph Bonneau <jcb@google.com>  
Joseph Holsten <joseph@josephholsten.com>  
Josh Bleecher Snyder <josharian@gmail.com>  
Josh Chorlton <jchorlton@gmail.com>  
Josh Deprez <josh.deprez@gmail.com>  
Josh Goebel <dreamer3@gmail.com>  
Josh Hoak <jhoak@google.com>  
Josh Holland <jrh@joshh.co.uk>  
Josh Roppo <joshroppo@gmail.com>  
Josh Varga <josh.varga@gmail.com>  
Joshua Boelter <joshua.boelter@intel.com>  
Joshua Chase <jcjosuachase@gmail.com>  
Joshua Rubin <joshua@rubixconsulting.com>  
Josselin  
Costanzi <josselin@costanzi.fr>  
Jostein Stuhaug <js@solidsystem.no>  
JP Sugarbroad <jpsugar@google.com>  
JT Olds <jtolds@xnet5.com>  
Juan Carlos <juanjcsr@gmail.com>  
Juan Pablo Civile <elementohb@gmail.com>  
Jude Pereira <judebpereira@gmail.com>  
Jukka-Pekka Kekkonen <karatepekka@gmail.com>  
Julia Hansbrough <flowerhack@google.com>  
Julian Kornberger <jk+github@digineo.de>  
Julian Pastarmov <pastarmovj@google.com>  
Julian Phillips <julian@quantumfyre.co.uk>  
Julie Qiu <julie@golang.org>  
Julien Kauffmann <julien.kauffmann@freelan.org>  
Julien Salleyron <julien.salleyron@gmail.com>  
Julien Schmidt <google@julienschmidt.com>

Julio Montes <julio.montes@intel.com>  
Junda Liu <junda@celer.network>  
Jungho Ahn <jhahn@google.com>  
Junya Hayashi <ledmonster@gmail.com>  
Jure Ham <jure.ham@zemanta.com>  
Justin Gracenin <jgracenin@gmail.com>  
Justin Nu <nuss.justin@gmail.com>  
Justyn Temme <justyntemme@gmail.com>  
Kai Backman <kaib@golang.org>  
Kai Trukenmiller <ktye78@gmail.com>  
Kale Blankenship <kale@lemnisis.com>  
Kaleb  
Elwert <kelwert@atlassian.com>  
Kamal Aboul-Hosn <aboulhosn@google.com>  
Kamil Chmielewski <kamil.chm@gmail.com>  
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>  
Kamil Rytarowski <krytarowski@users.noreply.github.com>  
Kang Hu <hukangustc@gmail.com>  
Karan Dhiman <karandhi@ca.ibm.com>  
Karel Pazdera <pazderak@gmail.com>  
Karoly Negyesi <chx1975@gmail.com>  
Karsten Khler <karsten.koehler95@gmail.com>  
Kashav Madan <kshvmdn@gmail.com>  
Kate Manson <kate.manson@izettle.com>  
Katie Hockman <katie@golang.org>  
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>  
Katrina Owen <katrina.owen@gmail.com>  
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>  
Kay Zhu <kayzhu@google.com>  
Kazuhiro Sera <seratch@gmail.com>  
KB Sriram <kbsriram@google.com>  
Keegan Carruthers-Smith <keegan.csmith@gmail.com>  
Kei Son <hey.calmdown@gmail.com>  
Keiji Yoshida <keijiyoshida.mail@gmail.com>  
Keith Ball <inflatablewoman@gmail.com>  
Keith Randall <khr@golang.org>  
Keith Rarick <kr@xph.us>  
Kelsey Hightower <kelsey.hightower@gmail.com>  
Kelvin  
Foo Chuan Lyi <vmirage@gmail.com>  
Ken Friedenbach <kenliz@cruzio.com>  
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>  
Ken Sedgwick <ken@bonsai.com>  
Ken Thompson <ken@golang.org>  
Kenji Kaneda <kenji.kaneda@gmail.com>  
Kenji Yano <kenji.yano@gmail.com>  
Kenneth Shaw <kenshaw@gmail.com>  
Kenny Grant <kennygrant@gmail.com>

Kevin Ballard <kevin@sb.org>  
Kevin Burke <kev@inburke.com>  
Kevin Kirsche <kev.kirsche@gmail.com>  
Kevin Klues <klueska@gmail.com> <klueska@google.com>  
Kevin Malachowski <chowski@google.com>  
Kevin Ruffin <kruffin@gmail.com>  
Kevin Vu <kevin.m.vu@gmail.com>  
Kevin Zita <bleedgreenandgold@gmail.com>  
Kieran Colford <kieran@kcolford.com>  
Kim Shrier <kshrier@racktopsystems.com>  
Kim Yongbin <kybinz@gmail.com>  
Kir Kolyshkin <kolyshkin@gmail.com>  
Kirill Smelkov <kirr@nexedi.com>  
Kirk Han <kirk91.han@gmail.com>  
Kirklin McDonald <kirklin.mcdonald@gmail.com>  
Klaus Post <klauspost@gmail.com>  
Kodie Goodwin <kodiegoodwin@gmail.com>  
Koichi Shiraishi <zchee.io@gmail.com>  
Koki  
Ide <niconegoto@yahoo.co.jp>  
Komu Wairagu <komuw05@gmail.com>  
Konstantin <konstantin8105@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Kris Kwiatkowski <kris@cloudflare.com>  
Kris Nova <kris@nivenly.com>  
Kris Rousey <krousey@google.com>  
Kristopher Watts <traetox@gmail.com>  
Kun Li <likunarmstrong@gmail.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Kuntal Majumder <hellozee@disroot.org>  
Kyle Consalus <consalus@gmail.com>  
Kyle Isom <kyle@gokyle.net>  
Kyle Jones <kyle@kyledj.com>  
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>  
Kyle Shannon <kyle@pobox.com>  
Kyle Spiers <eiais@google.com>  
Kyle Wood <kyle@kylewood.cc>  
Kyohei Kadota <lufia@lufia.org>  
Kyrylo Silin <silin@kyrylo.org>  
L Campbell <unpantsu@gmail.com>  
Lai Jiangshan <eag0628@gmail.com>  
Lajos Papp <lalyos@yahoo.com>  
Lakshay Garg <lakshay.garg.1996@gmail.com>  
Lann Martin <lannm@google.com>  
Lanre Adelowo <yo@lanre.wtf>  
Larry Clapp <larry@theclapp.org>  
Larry Hosken <lahosken@golang.org>  
Lars Jeppesen <jeppesen.lars@gmail.com>

Lars  
Lehtonen <lars.lehtonen@gmail.com>  
Lars Wiegman <lars@namsral.com>  
Larz Conwell <larzconwell@gmail.com>  
Laurent Voisin <lpvoisin@gmail.com>  
Laurie Clark-Michalek <laurie@qubit.com>  
LE Manh Cuong <cuong.manhle.vn@gmail.com>  
Lee Hinman <hinman@gmail.com>  
Lee Packham <lpackham@gmail.com>  
Lehner Florian <dev@der-flo.net>  
Leigh McCulloch <leighmcc@gmail.com>  
Leo Antunes <leo@costela.net>  
Leo Rudberg <ljr@google.com>  
Leon Klingele <git@leonklingele.de>  
Leonel Quinteros <leonel.quinteros@gmail.com>  
Lev Shamardin <shamardin@gmail.com>  
Lewin Bormann <lewin.bormann@gmail.com>  
Lion Yang <lion@aosc.xyz>  
Lloyd Dewolf <foolswisdom@gmail.com>  
Lorenz Bauer <lmb@cloudflare.com>  
Lorenzo Masini <rugginoso@develer.com>  
Lorenzo Stoakes <lstoakes@gmail.com>  
Louis Kruger <louisk@google.com>  
Luan Santos <cfcluan@gmail.com>  
Lubomir I. Ivanov <neolit123@gmail.com>  
Luca Bruno <luca.bruno@coreos.com>  
Luca Greco <luca.greco@alcacoop.it>  
Lucas Bremgartner <lucas.bremgartner@gmail.com>  
Lucas Clemente  
<lclemente@google.com>  
Lucien Stuker <lucien.stuker@gmail.com>  
Lucio De Re <lucio.dere@gmail.com>  
Ludi Rehak <ludi317@gmail.com>  
Luigi Riefolo <luigi.riefolo@gmail.com>  
Luit van Drongelen <luitvd@gmail.com>  
Luka Zakrajek <tr00.g33k@gmail.com>  
Lukasz Milewski <lmmilewski@gmail.com>  
Luke Curley <qpingu@gmail.com>  
Luke Granger-Brown <git@lukegb.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Luuk van Dijk <lvd@golang.org> <lvd@google.com>  
Lyle Franklin <lylejfranklin@gmail.com>  
Lynn Boger <laboger@linux.vnet.ibm.com>  
Ma Peiqi <mapeiqi2017@gmail.com>  
Maarten Bezemer <maarten.bezemer@gmail.com>  
Maciej Dbski <maciejd@google.com>  
Magnus Hiie <magnus.hiie@gmail.com>  
Maicon Costa <maiconscosta@gmail.com>

Mak Kolybabi <mak@kolybabi.com>  
Maksym Trykur <maksym.trykur@gmail.com>  
Mal Curtis <mal@mal.co.nz>  
Manfred Touron <m@42.am>  
Manigandan Dharmalingam <manigandan.jeff@gmail.com>  
Manish Goregaokar <manishsmail@gmail.com>  
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>  
Mansour  
Rahimi <rahimi.mnr@gmail.com>  
Manu Garg <manugarg@google.com>  
Manu S Ajith <neo@codingarena.in>  
Manuel Mendez <mmendez534@gmail.com>  
Marc Weistroff <marc@weistroff.net>  
Marc-Antoine Ruel <maruel@chromium.org>  
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>  
Marcel van Lohuizen <mpvl@golang.org>  
Marcelo Cantos <marcelo.cantos@gmail.com>  
Marcelo E. Magallon <marcelo.magallon@gmail.com>  
Marco Hennings <marco.hennings@freiheit.com>  
Marcus Willock <crazcalm@gmail.com>  
Marga Manterola <marga@google.com>  
Marin Bai <marin.basic02@gmail.com>  
Mario Arranz <marioarranzr@gmail.com>  
Marius Nuennerich <mnu@google.com>  
Mark Adams <mark@markadams.me>  
Mark Bucciarelli <mkbucc@gmail.com>  
Mark Harrison <marhar@google.com>  
Mark Percival <m@mdp.im>  
Mark Pulford <mark@kyne.com.au>  
Mark Rushakoff <mark.rushakoff@gmail.com>  
Mark Ryan <mark.d.ryan@intel.com>  
Mark Severson <miquella@gmail.com>  
Mark Theunissen <mark.theunissen@gmail.com>  
Mark Wolfe <mark@wolfe.id.au>  
Mark Zavislak <zavislak@google.com>  
Marko  
Juhani Silokunnas <marko.silokunnas@gmail.com>  
Marko Kevac <marko@kevac.org>  
Marko Mikulicic <mkm@google.com>  
Marko Mudrinic <mudrinic.mare@gmail.com>  
Marko Tiikkaja <marko@joh.to>  
Markus Duft <markus.duft@salomon.at>  
Markus Sonderegger <marraison@gmail.com>  
Markus Zimmermann <zimmski@gmail.com>  
Marten Seemann <martenseemann@gmail.com>  
Martin Bertschler <mbertschler@gmail.com>  
Martin Garton <garton@gmail.com>  
Martin Habbecke <marhab@google.com>

Martin Hamrle <martin.hamrle@gmail.com>  
Martin Hoefling <martin.hoefling@gmx.de>  
Martin Kreichgauer <martinkr@google.com>  
Martin Kunc <martinkunc@users.noreply.github.com>  
Martin Lindhe <martin.j.lindhe@gmail.com>  
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>  
Martin Neubauer <m.ne@gmx.net>  
Martin Olsen <github.com@martinolsen.net>  
Martin Olsson <martin@minimum.se>  
Martin Probst <martin@probst.io>  
Martin Sucha <anty.sk+git@gmail.com>  
Martin Tournioj <martin@arp242.net>  
Martins Sipenko <martins.sipenko@gmail.com>  
Martynas Budrinas  
<mabu@google.com>  
Marvin Stenger <marvin.stenger94@gmail.com>  
Marwan Sulaiman <marwan.sulaiman@work.co>  
Maryan Hratson <gmarik@gmail.com>  
Masahiro Furudate <masahiro.furudate@gmail.com>  
Masahiro Wakame <vvakame@gmail.com>  
Masaki Yoshida <yoshida.masaki@gmail.com>  
Mat Byczkowski <mbyczkowski@gmail.com>  
Mat Ryer <thatmatryer@gmail.com>  
Mt Gulys <mgulyas86@gmail.com>  
Matej Bao <matejbaco@gmail.com>  
Mateus Amin <mateus.amin@gmail.com>  
Mateusz Czapliski <czapkofan@gmail.com>  
Mathias Beke <git@denbeke.be>  
Mathias Hall-Andersen <mathias@hall-andersen.dk>  
Mathias Leppich <mleppich@muqu.de>  
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>  
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>  
Matt Aimonetti <mattaimonetti@gmail.com>  
Matt Blair <me@matthewblair.net>  
Matt Bostock <matt@mattbostock.com>  
Matt Brown <mbrown@google.com>  
Matt Dee <mdee@hioscar.com>  
Matt Drollette <matt@drollette.com>  
Matt Harden <matt.harden@gmail.com>  
Matt Jibson <matt.jibson@gmail.com>  
Matt Joiner <anacrolix@gmail.com>  
Matt  
Jones <mrjones@google.com>  
Matt Juran <thepciet@gmail.com>  
Matt Layher <mdlayher@gmail.com>  
Matt Reiferson <mreiferson@gmail.com>  
Matt Robenolt <matt@ydekproductions.com>  
Matt Strong <mstrong1341@gmail.com>



Matt T. Proud <matt.proud@gmail.com>  
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>  
Matthew Brennan <matty.brennan@gmail.com>  
Matthew Broberg <matthewbbroberg@gmail.com>  
Matthew Cottingham <mattcottingham@gmail.com>  
Matthew Dempsky <mdempsky@google.com>  
Matthew Denton <mdenton@skyportsystems.com>  
Matthew Holt <Matthew.Holt+git@gmail.com>  
Matthew Horsnell <matthew.horsnell@gmail.com>  
Matthew Waters <mwwaters@gmail.com>  
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>  
Matthieu Olivier <olivier.matthieu@gmail.com>  
Matthijs Kooijman <matthijs@stdn.nl>  
Max Riveiro <kavu13@gmail.com>  
Max Schmitt <max@schmitt.mx>  
Max Ushakov <ushmax@gmail.com>  
Maxim Khitrov <max@mxcrypt.com>  
Maxim Pimenov <mpimenov@google.com>  
Maxim Ushakov <ushakov@google.com>  
Maxime de Roucy <maxime.deroucy@gmail.com>  
Mximo  
Cuadros Ortiz <mcuadros@gmail.com>  
Maxwell Krohn <themax@gmail.com>  
Maya Rashish <maya@NetBSD.org>  
Mayank Kumar <krmayankk@gmail.com>  
Meir Fischer <meirfischer@gmail.com>  
Meng Zhuo <mengzhuo1203@gmail.com>  
Mhd Sulhan <m.shulhan@gmail.com>  
Micah Stetson <micah.stetson@gmail.com>  
Michael Anthony Knyszek <mknyszek@google.com>  
Michael Brandenburg <mbrandenburg@bolste.com>  
Michael Chaten <mchaten@gmail.com>  
Michael Darakananda <pongad@google.com>  
Michael Dornier <mail@michaeldornier.de>  
Michael Edwards <medwards@walledcity.ca>  
Michael Elkins <michael.elkins@gmail.com>  
Michael Ellis <micellis@justin.tv>  
Michael Fraenkel <michael.fraenkel@gmail.com>  
Michael Fromberger <michael.j.fromberger@gmail.com>  
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>  
Michael Henderson <mdhender@users.noreply.github.com>  
Michael Hendricks <michael@ndrix.org>  
Michael Hoisie <hoisie@gmail.com>  
Michael Hudson-Doyle <michael.hudson@linaro.org>  
Michael Kasch <michael.kasch@gmail.com>  
Michael  
Kufl <golang@c.michael-kaeufl.de>  
Michael Kelly <mjk@google.com>

Michael Lewis <mikelikespie@gmail.com>  
Michael MacInnis <Michael.P.MacInnis@gmail.com>  
Michael Marineau <michael.marineau@coreos.com>  
Michael Matloob <matloob@google.com>  
Michael McConville <momconville@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Michael McLoughlin <mmcloughlin@gmail.com>  
Michael Munday <mike.munday@ibm.com>  
Michael Pearson <mipearson@gmail.com>  
Michael Piatek <piatek@google.com>  
Michael Pratt <mpratt@google.com>  
Michael Schaller <michael@5challer.de>  
Michael Schurter <michael.schurter@gmail.com>  
Michael Shields <mshields@google.com>  
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>  
Michael Steinert <mike.steinert@gmail.com>  
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>  
Michael Teichgrber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>  
Michael Traver <mtraver@google.com>  
Michael Vetter <g.bluehut@gmail.com>  
Michal Bohuslvek <mbohuslvek@gmail.com>  
Michal  
Cierniak <cierniak@google.com>  
Micha Derkacz <ziutek@lnet.pl>  
Michal Franc <lam.michal.franc@gmail.com>  
Michal Pristas <michal.pristas@gmail.com>  
Michal Rostecki <mrostecki@suse.de>  
Michalis Kargakis <michaliskargakis@gmail.com>  
Michel Lespinasse <walken@google.com>  
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>  
Miguel Mendez <stxmendez@gmail.com>  
Miguel Molina <hi@mvader.me>  
Mihai Borobocea <MihaiBorobocea@gmail.com>  
Mihai Todor <todormihai@gmail.com>  
Mihail Minaev <minaev.mike@gmail.com>  
Mikael Tillenius <mikti42@gmail.com>  
Mike Andrews <mra@xoba.com>  
Mike Appleby <mike@app.leby.org>  
Mike Danese <mikedanese@google.com>  
Mike Houston <mike@kothar.net>  
Mike Kabischev <kabischev@gmail.com>  
Mike Rosset <mike.rosset@gmail.com>  
Mike Samuel <mikesamuel@gmail.com>  
Mike Solomon <msolo@gmail.com>  
Mike Strosaker <strosake@us.ibm.com>  
Mike Tsao <mike@sowbug.com>  
Mike Wiacek <mjwiacek@google.com>  
Mikhail Gusarov <dottedmag@dottedmag.net>

Mikhail Panchenko <m@mihasya.com>  
Miki Tebeka <miki.tebeka@gmail.com>  
Mikio  
Hara <mikioh.mikioh@gmail.com>  
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>  
Mikoaj Baranowski <mikolajb@gmail.com>  
Milan Knezevic <milan.knezevic@mips.com>  
Milutin Jovanovic <jovanovic.milutin@gmail.com>  
MinJae Kwon <mingrammer@gmail.com>  
Miquel Sabat Sol <mikisabate@gmail.com>  
Miroslav Genov <mgenov@gmail.com>  
Misty De Meo <mistydemeo@gmail.com>  
Mohit Agarwal <mohit@sdf.org>  
Mohit kumar Bajoria <mohitbajo36@gmail.com>  
Momchil Velikov <momchil.velikov@gmail.com>  
Monis Khan <mkhan@redhat.com>  
Monty Taylor <mordred@inaugust.com>  
Moriyoshi Koizumi <mozo@mozo.jp>  
Morten Siebuhr <sbhr@sbhr.dk>  
Mshe van der Sterre <moshevs@gmail.com>  
Mostyn Bramley-Moore <mostyn@antipode.se>  
Mrunal Patel <mrunalp@gmail.com>  
Muhammad Falak R Wani <falakreyaz@gmail.com>  
Muhammed Uluyol <uluyol0@gmail.com>  
Mura Li <mura\_li@castech.com.tw>  
Nan Deng <monnand@gmail.com>  
Naoki Kanatani <k12naoki@gmail.com>  
Nate Wilkinson <nathanwilk7@gmail.com>  
Nathan Cantelmo <n.cantelmo@gmail.com>  
Nathan  
Caza <mastercactus@gmail.com>  
Nathan Humphreys <nkhumphreys@gmail.com>  
Nathan John Youngman <nj@nathany.com>  
Nathan Otterness <otterness@cs.unc.edu>  
Nathan P Finch <nate.finch@gmail.com>  
Nathan VanBenschoten <nvanbenschoten@gmail.com>  
Nathan Youngman <git@nathany.com>  
Nathan(yinian) Hu <nathanhu@google.com>  
Nathaniel Cook <nvcook42@gmail.com>  
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>  
Neelesh Chandola <neelesh.c98@gmail.com>  
Neil Lyons <nwjlyons@googlemail.com>  
Neuman Vong <neuman.vong@gmail.com>  
Neven Sajko <nsajko@gmail.com>  
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>  
Niall Sheridan <ns Sheridan@gmail.com>  
Nic Day <nic.day@me.com>  
Nicholas Katsaros <nick@nickkatsaros.com>

Nicholas Maniscalco <nicholas@maniscalco.com>  
Nicholas Ng <nickng@nickng.io>  
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>  
Nicholas Sullivan <nicholas.sullivan@gmail.com>  
Nicholas Waples <nwaples@gmail.com>  
Nick Cooper <nmvc@google.com>  
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>  
Nick  
Harper <nharper@google.com>  
Nick Kubala <nkubala@google.com>  
Nick Leli <nicholasleli@gmail.com>  
Nick Miyake <nmiyake@users.noreply.github.com>  
Nick Patavalis <nick.patavalis@gmail.com>  
Nick Petroni <npetroni@cs.umd.edu>  
Nick Robinson <nrobinson13@gmail.com>  
Nick Smolin <nick27surgut@gmail.com>  
Nicolas BRULEZ <n.brulez@gmail.com>  
Nicolas Kaiser <nikai@nikai.net>  
Nicolas Owens <mischief@offblast.org>  
Nicolas S. Dade <nic.dade@gmail.com>  
Niek Sanders <niek.sanders@gmail.com>  
Niels Widger <niels.widger@gmail.com>  
Nigel Kerr <nigel.kerr@gmail.com>  
Nigel Tao <nigeltao@golang.org>  
Nik Nyby <nnyby@columbia.edu>  
Nikhil Benesch <nikhil.benesch@gmail.com>  
Niklas Schnelle <niklas.schnelle@gmail.com>  
Niko Dziemba <niko@dziemba.com>  
Nikolay Turpitko <nikolay@turpitko.com>  
Nils Larsgrd <nilsmagnus@gmail.com>  
Niranjan Godbole <niranjan8192@gmail.com>  
Nishanth Shanmugham <nishanth.gerrard@gmail.com>  
Noah Campbell <noahcampbell@gmail.com>  
Noble Johnson <noblepoly@gmail.com>  
Nodir Turakulov  
<nodir@google.com>  
Noel Georgi <git@frezbo.com>  
Norberto Lopes <nlopes.ml@gmail.com>  
Odin Ugedal <odin@ugedal.com>  
Oleg Bulatov <dmage@yandex-team.ru>  
Oleg Vakheta <helginet@gmail.com>  
Oleku Konko <oleku.konko@gmail.com>  
Oling Cat <olingcat@gmail.com>  
Oliver Hookins <ohookins@gmail.com>  
Oliver Stenbom <ostenbom@pivotal.io>  
Oliver Tonnhofer <olt@bogosoftware.com>  
Olivier Antoine <olivier.antoine@gmail.com>  
Olivier Duperray <duperray.olivier@gmail.com>

Olivier Poitrey <rs@dailymotion.com>  
Olivier Saingre <osaingre@gmail.com>  
Omar Jarjur <ojarjur@google.com>  
Oryan Moshe <iamoryanmoshe@gmail.com>  
Osamu TONOMORI <osamingo@gmail.com>  
zgr Kesim <oec-go@kesim.org>  
Pablo Lalloni <plalloni@gmail.com>  
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>  
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>  
Padraig Kitterick <padraigkitterick@gmail.com>  
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>  
Paolo Giarrusso <p.giarrusso@gmail.com>  
Paolo Martini <mrtnpaolo@gmail.com>  
Parker Moore <parkrmoore@gmail.com>  
Parminder  
Singh <parmsingh101@gmail.com>  
Pascal S. de Kloe <pascal@quies.net>  
Pat Moroney <pat@pat.email>  
Patrick Crosby <patrick@stathat.com>  
Patrick Gavlin <pgavlin@gmail.com>  
Patrick Higgins <patrick.allen.higgins@gmail.com>  
Patrick Lee <pattyshack101@gmail.com>  
Patrick Mzard <patrick@mezard.eu>  
Patrick Mylund Nielsen <patrick@patrickmn.com>  
Patrick Pelletier <pp.pelletier@gmail.com>  
Patrick Riley <pfr@google.com>  
Patrick Smith <pat42smith@gmail.com>  
Paul A Querna <paul.querna@gmail.com>  
Paul Borman <borman@google.com>  
Paul Boyd <boyd.paul2@gmail.com>  
Paul Chang <paulchang@google.com>  
Paul Hammond <paul@paulhammond.org>  
Paul Hankin <paulhankin@google.com>  
Paul Jolly <paul@myitcv.org.uk>  
Paul Lalonde <paul.a.lalonde@gmail.com>  
Paul M Furley <paul@paulfurley.com>  
Paul Marks <pmarks@google.com>  
Paul Meyer <paul.meyer@microsoft.com>  
Paul Nasrat <pnasrat@google.com>  
Paul PISCUC <paul.piscuc@gmail.com>  
Paul Querna <pquerna@apache.org>  
Paul Rosania <paul.rosania@gmail.com>  
Paul Ruest  
<pruest@gmail.com>  
Paul Sbarra <Sbarra.Paul@gmail.com>  
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>  
Paul Tyng <paul@paultyng.net>  
Paul van Brouwershaven <paul@vanbrouwershaven.com>

Paul Wankadia <junyer@google.com>  
Paulo Casaretto <pcasaretto@gmail.com>  
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>  
Pavel Paulau <pavel.paulau@gmail.com>  
Pavel Zinovkin <pavel.zinovkin@gmail.com>  
Pavlo Sumkin <ymkins@gmail.com>  
Pawel Knap <pawelknap88@gmail.com>  
Pawel Szczur <filemon@google.com>  
Percy Wegmann <ox.to.a.cart@gmail.com>  
Perry Abbott <perry.j.abbott@gmail.com>  
Petar Maymounkov <petarm@gmail.com>  
Peter Armitage <peter.armitage@gmail.com>  
Peter Bourgon <peter@bourgon.org>  
Peter Collingbourne <pcc@google.com>  
Peter Conerly <pconerly@gmail.com>  
Peter Dotchev <dotchev@gmail.com>  
Peter Froehlich <peter.hans.froehlich@gmail.com>  
Peter Gonda <pgonda@google.com>  
Peter Hoyes <pahoyes@gmail.com>  
Peter Kleiweg <pkleiweg@xs4all.nl>  
Peter McKenzie <petermck@google.com>  
Peter Moody <pmoody@uber.com>  
Peter  
Morjan <pmorjan@gmail.com>  
Peter Mundy <go.peter.90@gmail.com>  
Peter Nguyen <peter@mictis.com>  
Pter Surnyi <speter.go1@gmail.com>  
Pter Szab <pts@google.com>  
Pter Szilgyi <peterke@gmail.com>  
Peter Teichman <pteichman@fastly.com>  
Peter Tseng <ptseng@squareup.com>  
Peter Waldschmidt <peter@waldschmidt.com>  
Peter Waller <peter.waller@gmail.com>  
Peter Weinberger <pjw@golang.org>  
Peter Williams <pwil3058@gmail.com>  
Peter Wu <pwu@cloudflare.com>  
Peter Zhang <i@ddatsh.com>  
Petrica Voicu <pvoicu@paypal.com>  
Phil Pearl <philip.j.r.pearl@gmail.com>  
Phil Pennock <pdp@golang.org>  
Philip Brgesen <philip.borgesen@gmail.com>  
Philip Brown <phil@bolthole.com>  
Philip Hofer <phofer@umich.edu>  
Philip K. Warren <pkwarren@gmail.com>  
Philip Nelson <me@pnelson.ca>  
Philipp Stephani <phst@google.com>  
Pierre Durand <pierredurand@gmail.com>  
Pierre Prinetti <pierreprinetti@gmail.com>

Pierre Roullon <pierre.roullon@gmail.com>  
Piers <google@hellopiers.pro>  
Pieter Droogendijk <pieter@binky.org.uk>  
Pietro  
Gagliardi <pietro10@mac.com>  
Piyush Mishra <piyush@codeitout.com>  
Plekhanov Maxim <kishtatix@gmail.com>  
Pontus Leitzler <leitzler@gmail.com>  
Prasanna Swaminathan <prasanna@mediamath.com>  
Prashant Varanasi <prashant@prashantv.com>  
Pravendra Singh <hackpravj@gmail.com>  
Preetam Jinka <pj@preet.am>  
Qais Patankar <qaisjp@gmail.com>  
Qiuxuan Zhu <ilsh1022@gmail.com>  
Quan Tran <qeed.quan@gmail.com>  
Quan Yong Zhai <qyzhai@gmail.com>  
Quentin Perez <qperez@ocs.online.net>  
Quentin Renard <contact@asticode.com>  
Quentin Smith <quentin@golang.org>  
Quinn Slack <sqs@sourcegraph.com>  
Quinten Yearsley <qyearsley@chromium.org>  
Quoc-Viet Nguyen <afelion@gmail.com>  
Radek Sohlich <sohlich@gmail.com>  
Radu Berinde <radu@cockroachlabs.com>  
Rafal Jeczalik <rjeczalik@gmail.com>  
Raghavendra Nagaraj <jamdagni86@gmail.com>  
Rahul Chaudhry <rahulchaudhry@chromium.org>  
Raif S. Naffah <go@naffah-raif.name>  
Rajat Goel <rajat.goel2010@gmail.com>  
Rajath Agasthya <rajathagasthya@gmail.com>  
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>  
Ralph  
Corderoy <ralph@inputplus.co.uk>  
Ramazan AYYILDIZ <rayyildiz@gmail.com>  
Ramesh Dharan <dharan@google.com>  
Raph Levien <raph@google.com>  
Raphael Geronimi <raphael.geronimi@gmail.com>  
Raul Silvera <rsilvera@google.com>  
Ravil Bikbulatov <weeellz12@gmail.com>  
RaviTeja Pothana <ravi.tezu@gmail.com>  
Ray Tung <rtung@thoughtworks.com>  
Raymond Kazlauskas <raima220@gmail.com>  
Rebecca Stambler <rstambler@golang.org>  
Reilly Watson <reillywatson@gmail.com>  
Reinaldo de Souza Jr <juniorz@gmail.com>  
Remi Gillig <remigillig@gmail.com>  
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>  
Rens Rikkerink <Ikkerens@users.noreply.github.com>

Rhys Hiltner <rhys@justin.tv>  
Ricardo Padilha <ricardospadilha@gmail.com>  
Richard Barnes <rlb@ipv.sx>  
Richard Crowley <r@rcrowley.org>  
Richard Dingwall <rdingwall@gmail.com>  
Richard Eric Gavaletz <gavaletz@gmail.com>  
Richard Gibson <richard.gibson@gmail.com>  
Richard Miller <miller.research@gmail.com>  
Richard Musiol  
<mail@richard-musiol.de> <neelance@gmail.com>  
Rick Arnold <rickarnoldjr@gmail.com>  
Rick Hudson <rlh@golang.org>  
Rick Sayre <whorfin@gmail.com>  
Rijnard van Tonder <rvantonder@gmail.com>  
Riku Voipio <riku.voipio@linaro.org>  
Risto Jaakko Saarelmä <rsaarelm@gmail.com>  
Rob Earhart <earhart@google.com>  
Rob Norman <rob.norman@infinitycloud.com>  
Rob Phoenix <rob@robphoenix.com>  
Rob Pike <r@golang.org>  
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>  
Robert Dinu <r@varp.se>  
Robert Figueiredo <robfig@gmail.com>  
Robert Griesemer <gri@golang.org>  
Robert Hencke <robert.hencke@gmail.com>  
Robert Iannucci <iannucci@google.com>  
Robert Obryk <robryk@gmail.com>  
Robert Sesek <rsesek@google.com>  
Robert Snedegar <roberts@google.com>  
Robert Stepanek <robert.stepanek@gmail.com>  
Robert-Andr Mauchin <zebob.m@gmail.com>  
Roberto Clapis <robclap8@gmail.com>  
Roberto Selbach <roberto@selbach.ca>  
Robin Eklind <r.eklind.87@gmail.com>  
Rodolfo Carvalho <rhcarvalho@gmail.com>  
Rodolfo Rodriguez  
<rodolfobgibson@gmail.com>  
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>  
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>  
Roger Pau Monn <royger@gmail.com>  
Roger Peppe <rogpeppe@gmail.com>  
Roland Illig <roland.illig@gmx.de>  
Roland Shoemaker <rolandshoemaker@gmail.com>  
Roman Budnikov <romanyx90@yandex.ru>  
Roman Shchekin <mrqtros@gmail.com>  
Ron Hashimoto <mail@h2so5.net>  
Ron Minnich <rminnich@gmail.com>  
Ross Chater <rdchater@gmail.com>



Ross Light <light@google.com> <rlight2@gmail.com>  
Ross Smith II <ross@smithii.com>  
Rowan Marshall <rowanajmarshall@gmail.com>  
Rowan Worth <sqweek@gmail.com>  
Rudi Kramer <rudi.kramer@gmail.com>  
Rui Ueyama <ruiu@google.com>  
Ruslan Nigmatullin <elessar@dropbox.com>  
Russ Cox <rsc@golang.org>  
Russell Haering <russellhaering@gmail.com>  
Ryan Bagwell <ryanbagwell@outlook.com>  
Ryan Barrett <ryanb@google.com>  
Ryan Boehning <ryan.boehning@apcera.com>  
Ryan Brown <ribldb@google.com>  
Ryan Canty <jrcanty@gmail.com>  
Ryan Dahl <ry@tinyclouds.org>  
Ryan Hitchman  
<hitchmanr@gmail.com>  
Ryan Lower <rpjlower@gmail.com>  
Ryan Roden-Corrent <ryan@rcorre.net>  
Ryan Seys <ryan@ryanseys.com>  
Ryan Slade <ryanslade@gmail.com>  
Ryan Zhang <ryan.zhang@docker.com>  
Ryoichi KATO <ryo1kato@gmail.com>  
Ryuji Iwata <qt.luigi@gmail.com>  
Ryuma Yoshida <ryuma.y1117@gmail.com>  
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>  
S.alar Onur <caglar@10ur.org>  
Sabin Mihai Rapan <sabin.rapan@gmail.com>  
Sai Cheemalapati <saicheems@google.com>  
Sakeven Jiang <jc5930@sina.cn>  
Salmn Aljammz <s@0x65.net>  
Sam Boyer <tech@samboyer.org>  
Sam Ding <samding@ca.ibm.com>  
Sam Hug <samuel.b.hug@gmail.com>  
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>  
Sam Whited <sam@samwhited.com>  
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>  
Sami Commerot <samic@google.com>  
Sami Pnknen <sami.ponkanen@gmail.com>  
Samuel Kelemen <SCKelemen@users.noreply.github.com>  
Samuel Tan <samueltan@google.com>  
Samuele Pedroni <pedronis@lucediaruna.net>  
Sanjay Menakuru <balasanjay@gmail.com>  
Santhosh Kumar  
Tekuri <santhosh.tekuri@gmail.com>  
Sarah Adams <shadams@google.com>  
Sascha Brawer <sascha@brawer.ch>  
Sasha Lionheart <lionhearts@google.com>

Sasha Sobol <sasha@scaledinference.com>  
Scott Barron <scott.barron@github.com>  
Scott Bell <scott@sctsm.com>  
Scott Crunkleton <crunk1@gmail.com>  
Scott Ferguson <scottwferg@gmail.com>  
Scott Lawrence <bytbody@gmail.com>  
Scott Mansfield <smansfield@netflix.com>  
Scott Schwartz <scotts@golang.org>  
Scott Van Woudenberg <scottvw@google.com>  
Sean Burford <sburford@google.com>  
Sean Chen <oohcode@gmail.com>  
Sean Chittenden <seanc@joyent.com>  
Sean Christopherson <sean.j.christopherson@intel.com>  
Sean Dolphin <Sean.Dolphin@kpcompass.com>  
Sean Harger <sharger@google.com>  
Sean Rees <sean@erifax.org>  
Sebastiaan van Stijn <github@gone.nl>  
Sebastian Schmidt <yath@google.com>  
Sebastien Binet <seb.binet@gmail.com>  
Sbastien Paolacci <sebastien.paolacci@gmail.com>  
Sebastien Williams-Wynn <sebastien@cytora.com>  
Seiji Takahashi <timaki.st@gmail.com>  
Sergei Skorobogatov  
<skorobo@rambler.ru>  
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>  
Sergey Arseev <sergey.arseev@intel.com>  
Sergey Frolov <sfrolov@google.com>  
Sergey Lukjanov <me@slukjanov.name>  
Sergey Mishin <sergeymishine@gmail.com>  
Sergey Mudrik <sergey.mudrik@gmail.com>  
Sergey Semin <gray12511@gmail.com>  
Sergio Luis O. B. Correia <sergio@correia.cc>  
Sergiusz Bazanski <bazanski@gmail.com>  
Serhii Aheienko <serhii.aheienko@gmail.com>  
Seth Hoenig <seth.a.hoenig@gmail.com>  
Seth Vargo <sethvargo@gmail.com>  
Shahar Kohanim <skohanim@gmail.com>  
Shamil Garatuev <garatuev@gmail.com>  
Shane Hansen <shanemhansen@gmail.com>  
Shaozhen Ding <dsz0111@gmail.com>  
Shaun Dunning <shaun.dunning@uservoice.com>  
Shawn Ledbetter <sledbetter@google.com>  
Shawn Smith <shawn.p.smith@gmail.com>  
Shawn Walker-Salas <shawn.walker@oracle.com>  
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>  
Shengyu Zhang <shengyu.zhang@chaitin.com>  
Shi Han Ng <shihanng@gmail.com>  
Shijie Hao <haormj@gmail.com>

Shinji Tanaka <shinji.tanaka@gmail.com>  
Shintaro  
Kaneko <kaneshin0120@gmail.com>  
Shivakumar GN <shivakumar.gn@gmail.com>  
Shivansh Rai <shivansh@freebsd.org>  
Shun Fan <sfan@google.com>  
Silvan Jegen <s.jegen@gmail.com>  
Simon Jefford <simon.jefford@gmail.com>  
Simon Rawet <simon@rawet.se>  
Simon Thulbourn <simon+github@thulbourn.com>  
Simon Whitehead <chemnova@gmail.com>  
Sina Siadat <siadat@gmail.com>  
Sokolov Yura <funny.falcon@gmail.com>  
Song Gao <song@gao.io>  
Spencer Nelson <s@spenczar.com>  
Spencer Tung <spencertung@google.com>  
Spring Mc <heresy.mc@gmail.com>  
Srdjan Petrovic <spetrovic@google.com>  
Sridhar Venkatakrishnan <sridhar@laddoo.net>  
StalkR <stalkr@stalkr.net>  
Stan Schwertly <stan@schwertly.com>  
Stanislav Afanasev <php.progger@gmail.com>  
Steeve Morin <steeve.morin@gmail.com>  
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>  
Stepan Shabalin <neverliberty@gmail.com>  
Stephan Rénatus <srenatus@chef.io>  
Stéphane Travostino <stephane.travostino@gmail.com>  
Stephen Lewis <stephen@sock.org.uk>  
Stephen Lu <steuhs@users.noreply.github.com>  
Stephen  
Ma <stephenm@golang.org>  
Stephen McQuay <stephen@mcquay.me>  
Stephen Searles <stephens2424@gmail.com>  
Stephen Weinberg <stephen@q5comm.com>  
Steve Francia <spf@golang.org>  
Steve Gilbert <stevegilbert23@gmail.com>  
Steve LoFurno <slofurno@gmail.com>  
Steve McCoy <mccoyst@gmail.com>  
Steve Newman <snewman@google.com>  
Steve Phillips <elimistev@gmail.com>  
Steve Streeting <steve@stevestreeting.com>  
Steven Buss <sbuss@google.com>  
Steven Elliot Harris <seharris@gmail.com>  
Steven Erenst <stevenerenst@gmail.com>  
Steven Hartland <steven.hartland@multiplay.co.uk>  
Steven Littlebrant <imgroxx@gmail.com>  
Steven Wilkin <stevenwilkin@gmail.com>  
Stuart Jansen <sjansen@buscaluz.org>

Sue Spence <virtuallysue@gmail.com>  
Sugu Sougoumarane <ssougou@gmail.com>  
Suharsh Sivakumar <suharshs@google.com>  
Sukrit Handa <sukrit.handa@utoronto.ca>  
Sunny <me@darkowlzz.space>  
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>  
Suyash <dextrous93@gmail.com>  
Suzy Mueller <suzmue@golang.org>  
Sven  
Almgren <sven@tras.se>  
Sven Blumenstein <svbl@google.com>  
Sylvain Zimmer <sylvain@sylvainzimmer.com>  
Syohei YOSHIDA <syohex@gmail.com>  
Szabolcs Nagy <nsz@port70.net>  
Taavi Kivisik <taavi.kivisik@gmail.com>  
Tad Fisher <tadfisher@gmail.com>  
Tad Glines <tad.glines@gmail.com>  
Tadas Valiukas <tadovas@gmail.com>  
Taesu Pyo <pyotaesu@gmail.com>  
Taj Khattri <taj.khattri@gmail.com>  
Takashi Matsuo <tmatsuo@google.com>  
Takayoshi Nishida <takayoshi.nishida@gmail.com>  
Takeshi YAMANASHI <9.nashi@gmail.com>  
Takuto Ikuta <tikuta@google.com>  
Takuya Ueda <uedatakuya@gmail.com>  
Tal Shprecher <tshprecher@gmail.com>  
Tamir Duberstein <tamird@gmail.com>  
Tao Shen <shentaoskyking@gmail.com>  
Tao Wang <twang2218@gmail.com>  
Tarmigan Casebolt <tarmigan@gmail.com>  
Taro Aoki <aizu.s1230022@gmail.com>  
Taru Karttunen <taruti@taruti.net>  
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>  
Tatsuya Kaneko <m.ddotx.f@gmail.com>  
Taufiq Rahman <taufiqrx8@gmail.com>  
Teague Cole <tnc1443@gmail.com>  
Ted Kornish <golang@tedkornish.com>  
Tejasvi  
Nareddy <tejunareddy@gmail.com>  
Terin Stock <terinjokes@gmail.com>  
Terrel Shumway <gopher@shumway.us>  
Tetsuo Kiso <tetsuokiso9@gmail.com>  
Than McIntosh <thanm@google.com>  
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>  
Thanatat Tamtan <acoshift@gmail.com>  
Thiago Avelino <t@avelino.xxx>  
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>  
Thomas Alan Copeland <talan.copeland@gmail.com>

Thomas Bonfort <thomas.bonfort@gmail.com>  
Thomas Bouldin <inlined@google.com>  
Thomas Bruyelle <thomas.bruyelle@gmail.com>  
Thomas Bushnell, BSG <tbushnell@google.com>  
Thomas de Zeeuw <thomasdezeeuw@gmail.com>  
Thomas Desrosiers <thomasdesr@gmail.com>  
Thomas Habets <habets@google.com>  
Thomas Kappler <tkappler@gmail.com>  
Thomas Meson <zllak@hycik.org>  
Thomas Wanielista <tomwans@gmail.com>  
Thorben Krueger <thorben.krueger@gmail.com>  
Thordur Bjornsson <thorduri@secnorth.net>  
Tiago Queiroz <contato@tiago.eti.br>  
Tilman Dilo <tilman.dilo@gmail.com>  
Tim Cooijmans <timcoojmans@gmail.com>  
Tim  
Cooper <tim.cooper@layeh.com>  
Tim Ebringer <tim.ebringer@gmail.com>  
Tim Heckman <t@heckman.io>  
Tim Henderson <tim.tadh@gmail.com>  
Tim Hockin <thockin@google.com>  
Tim Swast <swast@google.com>  
Tim Wright <tenortim@gmail.com>  
Tim Xu <xiaoxubeii@gmail.com>  
Timo Savola <timo.savola@gmail.com>  
Timo Truys <alkaloid.btx@gmail.com>  
Timothy Studd <tim@timstudd.com>  
Tipp Moseley <tipp@google.com>  
Tobias Assarsson <tobias.assarsson@gmail.com>  
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>  
Tobias Klauser <tklauser@distanz.ch>  
Toby Burrell <kurin@google.com>  
Todd Neal <todd@tneal.org>  
Todd Wang <toddwang@gmail.com>  
Tom Bergan <tombergan@google.com>  
Tom Heng <zhm20070928@gmail.com>  
Tom Lanyon <tomlanyon@google.com>  
Tom Levy <tomlevy93@gmail.com>  
Tom Limoncelli <tal@whatexit.org>  
Tom Linfoord <tomlinfoord@gmail.com>  
Tom Payne <twpayne@gmail.com>  
Tom Szymanski <tgs@google.com>  
Tom Thorogood <me+google@tomthorogood.co.uk>  
Tom Wilkie <tom@weave.works>  
Tommy Schaefer  
<tommy.schaefer@teecom.com>  
Tomoya Ishizaki <zaq1tomo@gmail.com>  
Tonis Tiigi <tonistiigi@gmail.com>

Tony Reix <tony.reix@bull.net>  
Tony Walker <walkert.uk@gmail.com>  
Tor Andersson <tor.andersson@gmail.com>  
Tormod Erevik Lea <tormodlea@gmail.com>  
Toshiki Shima <hayabusa1419@gmail.com>  
Totoro W <tw19881113@gmail.com>  
Travis Bischel <travis.bischel@gmail.com>  
Travis Cline <travis.cline@gmail.com>  
Trevor Strohman <trevor.strohman@gmail.com>  
Trey Lawrence <lawrence.trey@gmail.com>  
Trey Roessig <trey.roessig@gmail.com>  
Trey Tacon <ttacon@gmail.com>  
Tristan Amini <tamini01@ca.ibm.com>  
Tristan Colgate <tcolgate@gmail.com>  
Tristan Ooohry <ooohry@gmail.com>  
Tristan Rice <rice@fn.lc>  
Troels Thomsen <troels@thomsen.io>  
Trung Nguyen <trung.n.k@gmail.com>  
Tudor Golubenco <tudor.g@gmail.com>  
Tugdual Saunier <tugdual.saunier@gmail.com>  
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>  
Tyler Bui-Palsulich <tpalsulich@google.com>  
Tyler Bunnell <tylerbunnell@gmail.com>  
Tyler Treat <ttreat31@gmail.com>  
Tzu-Jung  
Lee <roylee17@currant.com>  
Ugorji Nwoke <ugorji@gmail.com>  
Ulf Holm Nielsen <doktor@dyregod.dk>  
Ulrich Kunitz <uli.kunitz@gmail.com>  
Umang Parmar <umangiparmar@gmail.com>  
Uriel Mangado <uriel@berlinblue.org>  
Urvil Patel <patelurvil38@gmail.com>  
Uttam C Pawar <uttam.c.pawar@intel.com>  
Vadim Grek <vadimprog@gmail.com>  
Vadim Vygonets <unixdj@gmail.com>  
Val Polouchkine <vpolouch@justin.tv>  
Vega Garcia Luis Alfonso <vegacom@gmail.com>  
Venil Noronha <veniln@vmware.com>  
Veselkov Konstantin <kostozyb@gmail.com>  
Viacheslav Poturaev <vearutop@gmail.com>  
Victor Chudnovsky <vchudnov@google.com>  
Victor Vrantchan <vrancean+github@gmail.com>  
Vignesh Ramachandra <vickyramachandra@gmail.com>  
Vikas Kedia <vikask@google.com>  
Vincent Ambo <tazjin@googlemail.com>  
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>  
Vincent Vanackere <vincent.vanackere@gmail.com>  
Vinu Rajashekhar <vinutharaj@gmail.com>

Vish Subramanian <vish@google.com>  
Vishvananda Ishaya <vishvananda@gmail.com>  
Visweswara  
R <r.visweswara@gmail.com>  
Vitor De Mario <vitordemario@gmail.com>  
Vlad Krasnov <vlad@cloudflare.com>  
Vladimir Kovpak <cn007b@gmail.com>  
Vladimir Kuzmin <vkuzmin@uber.com>  
Vladimir Mihailenco <vladimir.webdev@gmail.com>  
Vladimir Nikishenko <vova616@gmail.com>  
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>  
Vladimir Varankin <nek.narqo@gmail.com>  
Volker Dobler <dr.volker.dobler@gmail.com>  
Volodymyr Paprotski <vpaprots@ca.ibm.com>  
W. Trevor King <wking@tremily.us>  
Wade Simmons <wade@wades.im>  
Walter Poupore <wpoupore@google.com>  
Wander Lairson Costa <wcosta@mozilla.com>  
Warren Fernandes <warren.f.fernandes@gmail.com>  
Wayne Ashley Berry <wayneashleyberry@gmail.com>  
Wedson Almeida Filho <wedsonaf@google.com>  
Weerasak Chongnguluam <singpor@gmail.com>  
Wi Cngru <crvv.mail@gmail.com>  
Wei Fu <fhfuwei@163.com>  
Wei Guangjing <vcc.163@gmail.com>  
Wei Xiao <wei.xiao@arm.com>  
Weichao Tang <tevic.tt@gmail.com>  
Wembley G. Leach, Jr <wembley.gl@gmail.com>  
Wil Selwood <wselwood@gmail.com>  
Wilfried  
Teiken <wteiken@google.com>  
Will Beason <willbeason@gmail.com>  
Will Chan <willchan@google.com>  
Will Faught <will.faught@gmail.com>  
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>  
Will Norris <willnorris@google.com>  
Will Storey <will@summercat.com>  
Willem van der Schyff <willemvds@gmail.com>  
William Chan <willchan@chromium.org>  
William Chang <mr.williamchang@gmail.com>  
William Josephson <wjosephson@gmail.com>  
William Orr <will@worrbase.com> <ay1244@gmail.com>  
Wisdom Omuya <deafgoat@gmail.com>  
Wu Yunzhou <yunzhouwu@gmail.com>  
Xi Ruoyao <xry23333@gmail.com>  
Xia Bin <snyh@snyh.org>  
Xing Xing <mikespook@gmail.com>  
Xu Fei <badgangkiller@gmail.com>

Xudong Zhang <felixmelon@gmail.com>  
Xudong Zheng <7pkvm5aw@slicealias.com>  
Xuyang Kang <xuyangkang@gmail.com>  
Yamagishi Kazutoshi <ykzts@desire.sh>  
Yan Zou <yzou@google.com>  
Yann Hodique <yhodique@google.com>  
Yann Kerherv <yann.kerherve@gmail.com>  
Yann Salan <yannsalaun1@gmail.com>  
Yao Zhang <lunaria21@gmail.com>  
Yaron de Leeuw <jarondl@google.com>  
Yasha  
Bubnov <girokompass@gmail.com>  
Yasuharu Goto <matope.ono@gmail.com>  
Yasuhiro Matsumoto <mattn.jp@gmail.com>  
Yasuyuki Oka <yasuyk@gmail.com>  
Yazen Shunnar <yazen.shunnar@gmail.com>  
Yestin Sun <ylh@pdx.edu>  
Yesudeep Mangalapilly <yesudeep@google.com>  
Yissakhar Z. Beck <yissakhar.beck@gmail.com>  
Yo-An Lin <yoanlin93@gmail.com>  
Yohei Takeda <yo.tak0812@gmail.com>  
Yongjian Xu <i3dmaster@gmail.com>  
Yorman Arias <cixtords@gmail.com>  
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>  
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>  
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>  
Yu Heng Zhang <annita.zhang@cn.ibm.com>  
Yu Xuan Zhang <zyxsh@cn.ibm.com>  
Yuji Yaginuma <yuuji.yaginuma@gmail.com>  
Yuki OKUSHI <huyuumi.dev@gmail.com>  
Yuki Yugui Sonoda <yugui@google.com>  
Yukihiro Nishinaka <6elpinal@gmail.com>  
Yury Smolsky <yury@smolsky.by>  
Yusuke Kagiwada <block.rxckin.beats@gmail.com>  
Yuusei Kuwana <kuwana@kumama.org>  
Yuval Pavel Zholkover <paulzhol@gmail.com>  
Yves Junqueira <yvesj@google.com>  
<yves.junqueira@gmail.com>  
Zac Bergquist <zbergquist99@gmail.com>  
Zach Bintliff <zbintliff@gmail.com>  
Zach Gershman <zachgersh@gmail.com>  
Zachary Amsden <zach@thundertoken.com>  
Zachary Gershman <zgershman@pivotal.io>  
Zak <zrjknill@gmail.com>  
Zakatell Kanda <hi@zkanda.io>  
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>  
Zev Goldstein <zev.goldstein@gmail.com>  
Zheng Dayu <davidzheng23@gmail.com>



Zheng Xu <zheng.xu@arm.com>  
Zhengyu He <hzy@google.com>  
Zhongpeng Lin <zplin@uber.com>  
Zhongtao Chen <chenzhongtao@126.com>  
Zhongwei Yao <zhongwei.yao@arm.com>  
Zhou Peng <p@ctriple.cn>  
Ziad Hatahet <hatahet@gmail.com>  
Zorion Arrizabalaga <zorionk@gmail.com>  
<max.faceless.frei@gmail.com>  
<hagen1778@gmail.com>  
<tbunyk@gmail.com>  
<faxriddinjon@gmail.com>  
<zs349596@gmail.com>  
<bronze1man@gmail.com>

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Since May 20 2000, it is maintained by Roland Bauerschmidt  
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## 1.12 queue 1.1.0

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## 1.13 gobwas-pool 0.2.1

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## 1.14 pb 1.0.29

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## 1.15 sio-go 0.3.1

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# 1.16 md5-simd 1.1.2

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Version 3, 29 June 2007

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## 1.39 usrmerge 25ubuntu2

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# 1.40 hostname 3.23ubuntu2

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hostname -- set the host name or show the host/domain name

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.45 libnsl 1.3.0-2build2

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Version 3, 29 June 2007

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## 1.56 pcre 8.39-13ubuntu0.22.04.1

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Written by: Philip Hazel  
Email local part: ph10  
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# 1.57 libtasn 4.18.0-4build1

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the

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Any executables containing that work also fall under Section 6,  
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a



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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable

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That's all there is to it!

## 1.63 sed 4.8-1ubuntu2

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The

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section 10

makes it unnecessary.

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Any executables containing that work also fall under Section 6,

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>



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/\* ischroot: detect if running in a chroot

\*

\* Debian ischroot program

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/\* run-parts: run a bunch of scripts in a directory

\*

\* Debian run-parts program

\* Copyright (C) 1996 Jeff Noxon <jeff@router.patch.net>,

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## 1.67 acl 2.3.1-1

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```

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## 1.75 tdb 1.46.5

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'`/\$(BSD\_LIB) \$(BSD\_LIB))



```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip:: install-shlibs

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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## 1.77 libxcrypt 4.4.27-1

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object

code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Version 3, 29 June 2007

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# 1.82 npth 1.6-3build2

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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## 1.96 zlib 1.2.11.dfsg-2ubuntu9.2

### 1.96.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

No license file was found, but licenses were detected in source scan.

```
/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
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*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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```
/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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Not copyrighted -- provided to the public domain

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* unzip.c -- IO for uncompress .zip files using zlib  
Version 1.1, February 14h, 2010  
part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64  
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip  
Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of  
compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying  
file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the  
non-echoing password parts) were originally written in Europe. The  
whole source package can be freely distributed, including from the USA.  
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from  
Roger Schlafly, described by Phil Katz in the file appnote.txt. This  
file (appnote.txt) is distributed with the PKZIP program (even in the  
version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/\* inffback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

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/\* gzlog.h

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version 2.2, 14 Aug 2012

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

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/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

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```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
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*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

No license file was found, but licenses were detected in source scan.

```
/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - ( http://www.winimage.com/zLibDll/minizip.html )
```

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support  
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For more info read MiniZip\_info.txt

-----

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-----

Changes

See header of zip.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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/\*

\* gzlog.c

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\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\*/

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.



zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <[info@winimage.com](mailto:info@winimage.com)>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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/\* gzread.c -- zlib functions for reading gzip files

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

No license file was found, but licenses were detected in source scan.

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

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Jean-loup Gailly      Mark Adler  
jloup@zip.org        madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

```
/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
```

No license file was found, but licenses were detected in source scan.

```
/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
```

No license file was found, but licenses were detected in source scan.

```
/* minizip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minizip.c
```

No license file was found, but licenses were detected in source scan.

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
```

No license file was found, but licenses were detected in source scan.

```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
```

No license file was found, but licenses were detected in source scan.

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
```

No license file was found, but licenses were detected in source scan.

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
```

No license file was found, but licenses were detected in source scan.

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
```

No license file was found, but licenses were detected in source scan.

```
/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
```

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
```

No license file was found, but licenses were detected in source scan.

```
/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
```

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

## Introduction

-----  
MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----  
When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c  
some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
  - \* Added ZIP64 support for zip ( by Mathias Svensson )
  - \* Reverted some changed that Even Rouault did.
  - \* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
  - \* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
  - \* Added BZIP Compress method for zip
  - \* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

## Zip File specification

### Notes.

\* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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### Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

No license file was found, but licenses were detected in source scan.

-----  
/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

### Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

-----  
/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1.2.11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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-----  
Changes

See header of unzip64.c

\*/



Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

No license file was found, but licenses were detected in source scan.

/\* adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

No license file was found, but licenses were detected in source scan.

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

No license file was found, but licenses were detected in source scan.

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

No license file was found, but licenses were detected in source scan.

/\* gzappend -- command to append to a gzip file

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version 1.2, 11 Oct 2012

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

## Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference

("as any"), not by value ("as long").

### 5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero.

When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h` . Examples of zlib usage are in the files `test/example.c` and `test/minigzip.c`, with more in `examples/` .

7. Why don't you use GNU  
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.  
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.  
Please try to reproduce the problem with a small program and send the  
corresponding source to us at `zlib@gzip.org` . Do not send multi-megabyte  
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files `libz.*` in `/usr/lib`, `/usr/local/lib` or  
`/usr/X11R6/lib`. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the `contrib/delphi` directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory `contrib/minizip` in the zlib  
distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an `uncompress` or `gunzip` subprocess, or adapt  
the code of `uncompress` on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
```

```
./configure  
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:  
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers

and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled `zlib` library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

25.

Will `zlib` work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will `zlib` work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will `zlib` decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and `zlib`. However, you can look in `zlib's contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does `zlib` work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of `zlib` 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of `zlib` on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to

understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is

32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:



<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,

use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

## 1.97 [github.com/lestrrat-go/iter](https://github.com/lestrrat-go/iter) 1.0.2

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## 1.98 [lestrrat-go-iter](https://github.com/lestrrat-go/iter) 1.0.2

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```
Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnm@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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```

-----  
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```
/*
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  */
  (By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 */
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//////////////////////////////////////////////////////////////////
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in t\_html\_generator.h

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# 1.100 pretty 1.2.1

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## 1.102 media-types 7.0.0

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```
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Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

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To: Jonathan Nieder <[jrnieder@gmail.com](mailto:jrnieder@gmail.com)>

Subject: Re: XZ utils for Debian

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src/liblzma/lzma/fastpos\_tablegen.c

src/liblzma/rangecoder/price\_tablegen.c

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Comment:

changelog.gz (commit 975d8fd) explains:

.

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

License: config-h

configure.ac:

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dnl From

Bruno Haible.

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comments from Autoconf 2.52g:
.
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dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.
```

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

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## 1.107 sysvinit-utils 3.01-1ubuntu1

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Other contributors include:

Anthony Towns <ajt@debian.org>

David Whedon <dwhedon@gordian.com>

Dan Jacobowitz <dan@debian.org>

Tollef Fog Heen <tfheen@debian.org>

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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Jan Mercl <0xjnm@gmail.com>  
Kai Backman <kaib@golang.org>  
Marc-Antoine Ruel <maruel@chromium.org>  
Nigel Tao <nigeltao@golang.org>  
Rob Pike <r@golang.org>  
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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

# 1.130 libpkit 0.24.0-6build1

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Upstream-Name: p11-kit

Source: <https://p11-glue.github.io/p11-glue/p11-kit.html>

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# 1.132 [github.com/aymanbagabas/go-osc52/v2](https://github.com/aymanbagabas/go-osc52/v2)

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## 1.134 gofork 1.7.6

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## 1.135 githubcommitchellhmapstructure 1.5.0

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-- vile: txtmode file-encoding=utf-8

## 1.137 libncurses 6.3-2ubuntu0.1

## 1.137.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>  
This package is used for testing builds of ncurses.

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Files: doc/html/NCURSES-Programming-HOWTO.html

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Files: progs/tset.c ncurses/tinfo/read\_termcap.c

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-- vile:txtmode fc=72  
-- \$Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp \$  
Upstream source <https://invisible-island.net/ncurses/Ada95.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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-- vile: txtmode file-encoding=utf-8

## 1.138 libksba8 1.6.0-2ubuntu0.2

## 1.138.1 Available under license :

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Version 3, 29 June 2007

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Full

text of gpl-2.0.txt:

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```

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```
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```

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Version 3, 29 June 2007

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
```

```
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>
```

```
<body>
```

```
<!-- site wide top running header menu -->
```

```
<ul id="overview">
```

```
<li class="home">
```

```
HOME_HREF
```

```
</li>
```

```
<li class="release">
```

```
12_HREF
```

```
</li>
```

```
<li>
```

```
<a href="news.html" title="News">News</a>
```

```
</li>
```

```
<li>
```

```
<a href="development.html" title="Development">Development</a>
```

```
</li>
```

```
<li>
```

```
<a href="community.html" title="Community">Community</a>
```

```
</li>
```

```
</ul>
```

```
<div id="header">
```

```
<h1>
```

```
<span style="display:inline-block; vertical-align:middle">
```

```

```

```
</span>
```

```
<span style="display:inline-block; vertical-align:middle; font-size: 50px">
```

```
GNU Modula-2
```

```
</span>
```

```
</h1>
```

```
<!-- homepage tab menu -->
```

```
<div id="tabmenu">
```

```
<ul id="tab">
```

```
<li><a href="about.html"><span>About</span></a></li>
```

```
<li><a href="download.html"><span>Download</span></a></li>
```

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<li><a href="release.html"><span>Latest Release</span></a></li>
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<li class="selected"><a href="license.html"><span>License</span></a></li>
```

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<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
</ul>
</div>
</div>

<div id="page">
<div class="plain">
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</div>
</div>
</body>
</html>

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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(28) Artem Bityuckiy (--enable-newlib-iconv)

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## 1.152 elastic/go-elasticsearch 7.17.10

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//
// Code generated from specification version 7.17.10: DO NOT EDIT
```

```
package esapi
```

```
import (
    "context"
    "io"
    "net/http"
    "strconv"
    "strings"
)
```

```
func newLicensePostFunc(t Transport) LicensePost {
    return func(o
```

```

...func(*LicensePostRequest)) (*Response, error) {
    var r = LicensePostRequest{ }
    for _, f := range o {
        f(&r)
    }
    return r.Do(r.ctx, t)
}
}

// ----- API Definition -----

// LicensePost - Updates the license for the cluster.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/update-license.html.
type LicensePost func(o ...func(*LicensePostRequest)) (*Response, error)

// LicensePostRequest configures the License Post API request.
type LicensePostRequest struct {
    Body io.Reader

    Acknowledge *bool

    Pretty      bool
    Human       bool
    ErrorTrace  bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "PUT"

    path.Grow(len("/_license"))
    path.WriteString("/_license")

    params
    = make(map[string]string)

```

```

if r.Acknowledge != nil {
    params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
}

if r.Pretty {
    params["pretty"] = "true"
}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), r.Body)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if r.Body != nil && req.Header.Get(headerContentType) == "" {
    req.Header[headerContentType] = headerContentTypeJSON
}

```

```

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err
:= transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:   res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePost) WithContext(v context.Context) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.ctx = v
    }
}

// WithBody - licenses to be installed.
func (f LicensePost) WithBody(v io.Reader) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Body = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePost) WithAcknowledge(v bool) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Acknowledge = &v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePost) WithPretty() func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Pretty = true
    }
}

```



```

// WithHuman makes statistical values human-readable.
func
(f LicensePost) WithHuman() func(*LicensePostRequest) {
return func(r *LicensePostRequest) {
    r.Human = true
}
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePost) WithErrorTrace() func(*LicensePostRequest) {
return func(r *LicensePostRequest) {
    r.ErrorTrace = true
}
}

// WithFilterPath filters the properties of the response body.
func (f LicensePost) WithFilterPath(v ...string) func(*LicensePostRequest) {
return func(r *LicensePostRequest) {
    r.FilterPath = v
}
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePost) WithHeader(h map[string]string) func(*LicensePostRequest) {
return func(r *LicensePostRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    for k, v := range h {
        r.Header.Add(k, v)
    }
}
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePost) WithOpaqueID(s string) func(*LicensePostRequest) {
return func(r *LicensePostRequest)
{
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    r.Header.Set("X-Opaque-Id", s)
}
}
name: License headers

on: [ pull_request ]

```

jobs:

build:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v2

- name: Check license headers

run: |

./github/check-license-headers.sh

```
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//
// Code generated from specification version 7.17.10: DO NOT EDIT
```

package esapi

```
import (
    "context"
    "net/http"
    "strings"
)
```

```
func newLicenseGetBasicStatusFunc(t Transport) LicenseGetBasicStatus {
    return
    func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error) {
        var r = LicenseGetBasicStatusRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}
```

```
// ----- API Definition -----

// LicenseGetBasicStatus - Retrieves information about the status of the basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-basic-status.html.
type LicenseGetBasicStatus func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error)

// LicenseGetBasicStatusRequest configures the License Get Basic Status API request.
type LicenseGetBasicStatusRequest struct {
    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetBasicStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "GET"

    path.Grow(len("/_license/basic_status"))
    path.WriteString("/_license/basic_status")

    params = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }
}
```

```

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:
        res.Body,
    Header:    res.Header,
}

return &response, nil
}

```

```

// WithContext sets the request context.
func (f LicenseGetBasicStatus) WithContext(v context.Context) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.ctx = v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetBasicStatus) WithPretty() func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetBasicStatus) WithHuman() func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetBasicStatus) WithErrorTrace() func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the
response body.
func (f LicenseGetBasicStatus) WithFilterPath(v ...string) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetBasicStatus) WithHeader(h map[string]string) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

```

```
// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetBasicStatus) WithOpaqueID(s string) func(*LicenseGetBasicStatusRequest) {
return func(r *LicenseGetBasicStatusRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    r.Header.Set("X-Opaque-Id", s)
}
}
```

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```

```
package esapi
```

```
import (
```

```

"context"
"net/http"
"strconv"
"strings"
)

func newLicenseGetFunc(t Transport) LicenseGet {
    return func(o ...func(*LicenseGetRequest))
        (*Response, error) {
            var r = LicenseGetRequest{}
            for _, f := range o {
                f(&r)
            }
            return r.Do(r.ctx, t)
        }
    }

// ----- API Definition -----

// LicenseGet - Retrieves licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-license.html.
type LicenseGet func(o ...func(*LicenseGetRequest)) (*Response, error)

// LicenseGetRequest configures the License Get API request.
type LicenseGetRequest struct {
    AcceptEnterprise *bool
    Local           *bool

    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "GET"

```

```

path.Grow(len("/_license"))
path.WriteString("/_license")

params
= make(map[string]string)

if r.AcceptEnterprise != nil {
    params["accept_enterprise"] = strconv.FormatBool(*r.AcceptEnterprise)
}

if r.Local != nil {
    params["local"] = strconv.FormatBool(*r.Local)
}

if r.Pretty {
    params["pretty"] = "true"
}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {

```

```

    for k, vv := range r.Header {
        for _, v := range vv {
            req.Header.Add(k, v)
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicenseGet) WithContext(v context.Context) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.ctx = v
    }
}

// WithAcceptEnterprise - if the active license is an enterprise license, return type as 'enterprise' (default: false).
func (f LicenseGet) WithAcceptEnterprise(v bool) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.AcceptEnterprise = &v
    }
}

// WithLocal - return local information, do not retrieve the state from master node (default: false).
func (f LicenseGet) WithLocal(v bool) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.Local = &v
    }
}

```

```

// WithPretty makes the response body pretty-printed.
func (f LicenseGet) WithPretty() func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.Pretty = true
    }
}

//
// WithHuman makes statistical values human-readable.
func (f LicenseGet) WithHuman() func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGet) WithErrorTrace() func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
func (f LicenseGet) WithFilterPath(v ...string) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGet) WithHeader(h map[string]string) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGet) WithOpaqueID(s string) func(*LicenseGetRequest) {
    {
        return func(r *LicenseGetRequest) {
            if r.Header == nil {
                r.Header = make(http.Header)
            }
        }
    }
}

```

```

    r.Header.Set("X-Opaque-Id", s)
}
}

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

```

```
package esapi
```

```

import (
    "context"
    "net/http"
    "strings"
)

```

```

func newLicenseDeleteFunc(t Transport) LicenseDelete {
    return func(o ...func(*LicenseDeleteRequest))

```

```

(*Response, error) {
    var r = LicenseDeleteRequest{ }
    for _, f := range o {
        f(&r)
    }
    return r.Do(r.ctx, t)
}
}

// ----- API Definition -----

// LicenseDelete - Deletes licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/delete-license.html.
type LicenseDelete func(o ...func(*LicenseDeleteRequest)) (*Response, error)

// LicenseDeleteRequest configures the License Delete API request.
type LicenseDeleteRequest struct {
    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseDeleteRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "DELETE"

    path.Grow(len("/_license"))
    path.WriteString("/_license")

    params
    = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }
}

```



```

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,

```

```

    Body:    res.Body,
    Header:  res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func
(f LicenseDelete) WithContext(v context.Context) func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.ctx = v
}
}

// WithPretty makes the response body pretty-printed.
func (f LicenseDelete) WithPretty() func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.Pretty = true
}
}

// WithHuman makes statistical values human-readable.
func (f LicenseDelete) WithHuman() func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.Human = true
}
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseDelete) WithErrorTrace() func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.ErrorTrace = true
}
}

// WithFilterPath filters the properties of the response body.
func (f LicenseDelete) WithFilterPath(v ...string) func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.FilterPath = v
}
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseDelete)
WithHeader(h map[string]string) func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    if r.Header == nil {

```

```

    r.Header = make(http.Header)
}
for k, v := range h {
    r.Header.Add(k, v)
}
}
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseDelete) WithOpaqueID(s string) func(*LicenseDeleteRequest) {
    return func(r *LicenseDeleteRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
    "context"
    "net/http"
    "strconv"
    "strings"
)

func newLicensePostStartTrialFunc(t Transport) LicensePostStartTrial
{
    return func(o ...func(*LicensePostStartTrialRequest)) (*Response, error) {

```

```

var r = LicensePostStartTrialRequest{ }
for _, f := range o {
    f(&r)
}
return r.Do(r.ctx, t)
}
}

// ----- API Definition -----

// LicensePostStartTrial - starts a limited time trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-trial.html.
type LicensePostStartTrial func(o ...func(*LicensePostStartTrialRequest)) (*Response, error)

// LicensePostStartTrialRequest configures the License Post Start Trial API request.
type LicensePostStartTrialRequest struct {
    Acknowledge *bool
    DocumentType string

    Pretty bool
    Human bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartTrialRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method
        string
        path strings.Builder
        params map[string]string
    )

    method = "POST"

    path.Grow(len("/_license/start_trial"))
    path.WriteString("/_license/start_trial")

    params = make(map[string]string)

    if r.Acknowledge != nil {
        params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
    }

```

```

}

if r.DocumentType != "" {
    params["type"] = r.DocumentType
}

if r.Pretty {
    params["pretty"] = "true"
}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if

```

```

ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:   res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartTrial) WithContext(v context.Context) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.ctx = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartTrial) WithAcknowledge(v bool) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.Acknowledge = &v
    }
}

// WithDocumentType - the type of trial license to generate (default: "trial").
func (f LicensePostStartTrial) WithDocumentType(v string) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.DocumentType = v
    }
}

// WithPretty
    makes the response body pretty-printed.
func (f LicensePostStartTrial) WithPretty() func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.

```

```

func (f LicensePostStartTrial) WithHuman() func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartTrial) WithErrorTrace() func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartTrial) WithFilterPath(v ...string) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartTrial) WithHeader(h map[string]string) func(*LicensePostStartTrialRequest)
{
    return func(r *LicensePostStartTrialRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartTrial) WithOpaqueID(s string) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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```

```

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
    "context"
    "net/http"
    "strings"
)

func newLicenseGetTrialStatusFunc(t Transport) LicenseGetTrialStatus {
    return
    func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error) {
        var r = LicenseGetTrialStatusRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----

// LicenseGetTrialStatus - Retrieves information about the status of the trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-trial-status.html.
type LicenseGetTrialStatus func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error)

// LicenseGetTrialStatusRequest configures the License Get Trial Status API request.
type LicenseGetTrialStatusRequest struct {
    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

```



```

ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetTrialStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path strings.Builder
        params
        map[string]string
    )

    method = "GET"

    path.Grow(len("/_license/trial_status"))
    path.WriteString("/_license/trial_status")

    params = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }

    if len(r.FilterPath) > 0 {
        params["filter_path"] = strings.Join(r.FilterPath, ",")
    }

    req, err := newRequest(method, path.String(), nil)
    if err != nil {
        return nil, err
    }

    if len(params) > 0 {
        q := req.URL.Query()
        for k, v := range params {
            q.Set(k, v)
        }
        req.URL.RawQuery = q.Encode()
    }
}

```

```

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:
        res.Body,
    Header:   res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetTrialStatus) WithContext(v context.Context) func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.ctx = v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetTrialStatus) WithPretty() func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetTrialStatus) WithHuman() func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {

```

```

    r.Human = true
}
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetTrialStatus) WithErrorTrace() func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the
response body.
func (f LicenseGetTrialStatus) WithFilterPath(v ...string) func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetTrialStatus) WithHeader(h map[string]string) func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetTrialStatus) WithOpaqueID(s string) func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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```

```

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
    "context"
    "net/http"
    "strconv"
    "strings"
)

func newLicensePostStartBasicFunc(t Transport) LicensePostStartBasic
{
    return func(o ...func(*LicensePostStartBasicRequest)) (*Response, error) {
        var r = LicensePostStartBasicRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----

// LicensePostStartBasic - Starts an indefinite basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-basic.html.
type LicensePostStartBasic func(o ...func(*LicensePostStartBasicRequest)) (*Response, error)

// LicensePostStartBasicRequest configures the License Post Start Basic API request.
type LicensePostStartBasicRequest struct {
    Acknowledge *bool

    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

```

```

ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartBasicRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path strings.Builder
        params
        map[string]string
    )

    method = "POST"

    path.Grow(len("/_license/start_basic"))
    path.WriteString("/_license/start_basic")

    params = make(map[string]string)

    if r.Acknowledge != nil {
        params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
    }

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }

    if len(r.FilterPath) > 0 {
        params["filter_path"] = strings.Join(r.FilterPath, ",")
    }

    req, err := newRequest(method, path.String(), nil)
    if err != nil {
        return nil, err
    }

    if len(params) > 0 {
        q := req.URL.Query()
        for k, v := range params {

```

```

    q.Set(k, v)
}
req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartBasic) WithContext(v context.Context) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.ctx = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartBasic) WithAcknowledge(v bool) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.Acknowledge = &v
    }
}

```

```

}

// WithPretty makes the response body pretty-printed.
func (f LicensePostStartBasic) WithPretty() func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
func (f LicensePostStartBasic) WithHuman() func(*LicensePostStartBasicRequest) {
    return
    func(r *LicensePostStartBasicRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartBasic) WithErrorTrace() func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartBasic) WithFilterPath(v ...string) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartBasic) WithHeader(h map[string]string) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartBasic) WithOpaqueID(s string) func(*LicensePostStartBasicRequest) {
    {
        return func(r *LicensePostStartBasicRequest) {
            if r.Header == nil {

```

```
r.Header = make(http.Header)
}
r.Header.Set("X-Opaque-Id", s)
}
}
```

## 1.153 [github.com/lestrrat-go/blackmagic](https://github.com/lestrrat-go/blackmagic) 1.0.2

### 1.153.1 Available under license :

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## 1.154 [procps](https://procps.org) 3.3.17-6ubuntu2.1

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You should also get your employer (if you work as a programmer)  
or your  
school, if any, to sign a "copyright disclaimer" for the library, if  
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the  
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

# 1.155 perl 5.34.0-3ubuntu1.3

## 1.155.1 Available under license :

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysstatfs.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:i_sysstatfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysstatfs:
?S: This variable conditionally defines the I_SYSSTATFS symbol,
?S: and indicates whether a C program should include <sys/statfs.h>.
?S:.
?C:I_SYS_STATFS:
?C: This symbol, if defined, indicates that <sys/statfs.h> exists.
?C:.
?H:#$i_sysstatfs I_SYS_STATFS /**/
?H:.
?LINT:set i_sysstatfs
: see if this is a sys/statfs.h system
set sys/statfs.h i_sysstatfs
eval $inhdr
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysstatfs.U
No license file was found, but licenses were detected in source scan.
```

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_fmin: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_fmin:
```

?S: This variable conditionally defines the HAS\_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

```
?C:HAS_FMIN:
```

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

```
?H:#$d_fmin HAS_FMIN /**/
```

```
?H:.
```

```
?LINT:set d_fmin
```

```
: see if fmin exists
```

```
set fmin d_fmin
```

```
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U
No license file was found, but licenses were detected in source scan.
```

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_fma: Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_fma:
?S: This variable conditionally defines the HAS_FMA symbol, which
?S: indicates to the C program that the fma() routine is available.
?S:.
?C:HAS_FMA:
?C: This symbol, if defined, indicates that the fma routine is
?C: available to do the multiply-add function.
?C:.
?H:#$d_fma HAS_FMA /**/
?H:.
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U
No license file was found, but licenses were detected in source scan.
```

\* Feel free to modify any of this as the need arises.&nbsp;&nbsp; Note, however,

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_sysvfs.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
```

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysvfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_ftello: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d\_ftello:

?S: This variable conditionally defines the HAS\_FTELLO symbol, which

?S: indicates to the C program that the ftello() routine is available.

?S:.

?C:HAS\_FTELLO:

?C: This symbol, if defined, indicates that the ftello routine is

?C: available to ftell beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d\_ftello HAS\_FTELLO /\*\*/

?H:.

?LINT:set d\_ftello

: see if ftello exists

set ftello d\_ftello

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use ftell.)" ;;

esac

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_ftello.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_finitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_finitel:

?S: This variable conditionally defines the HAS\_FINITEL symbol, which

?S: indicates to the C program that the finitel() routine is available.

?S:.

?C:HAS\_FINITEL:

?C: This symbol, if defined, indicates that the finitel routine is

?C: available to check whether a long double is finite

?C: (non-infinity non-NaN).

?C:.

?H:#\$d\_finitel HAS\_FINITEL /\*\*/

?H:.

?LINT:set d\_finitel

: see if finitel exists

set finitel d\_finitel

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_finitel.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS:

?MAKE:d\_hasmntopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hasmntopt:

?S: This variable conditionally defines the HAS\_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS\_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d\_hasmntopt HAS\_HASMNTOPT /\*\*/

?H:.

?LINT:set d\_hasmntopt

: see if hasmntopt exists

set hasmntopt d\_hasmntopt

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_hasmntopt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_socks.U,v \$

```

?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr

```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_socks.U

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```

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc

```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nan.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_localeconv\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_localeconv\_l:

?S: This variable conditionally defines the HAS\_LOCALECONV\_L symbol, which

?S: indicates to the C program that the localeconv\_l() routine is available.

?S:.

?C:HAS\_LOCALECONV\_L:

?C: This symbol, if defined, indicates that the localeconv\_l routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d\_localeconv\_l HAS\_LOCALECONV\_L /\*\*/

?H:.

?LINT:set d\_localeconv\_l

: see if localeconv\_l exists

set localeconv\_l d\_localeconv\_l

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d\_localeconv\_l.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbnl:

?S: This variable conditionally defines the HAS\_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.

?S:.

?C:HAS\_SCALBNL:

?C: This symbol, if defined, indicates that the scalbnl routine is

?C: available. If ilogbl is also present we can emulate frexpl.



?C:.

?H:#\$d\_scalbnl HAS\_SCALBNL /\*\*/

?H:.

?LINT:set d\_scalbnl

: see if scalbnl exists

set scalbnl d\_scalbnl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_scalbnl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_fp.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_fp:

?S: This variable conditionally defines the I\_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.

?C:I\_FP:

?C: This symbol, if defined, indicates that <fp.h> exists and

?C: should be included.

?C:.

?H:#\$i\_fp I\_FP /\*\*/

?H:.

?LINT:set i\_fp

: see if this is a fp.h system

set fp.h i\_fp

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_fp.U

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?RCS:

?MAKE:d\_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ilogb:

?S: This variable conditionally defines the HAS\_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS\_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d\_ilogb HAS\_ILOGB /\*\*/

?H:.

?LINT:set d\_ilogb

: see if ilogb exists

set ilogb d\_ilogb

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_ilogb.U

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?RCS:

?MAKE:d\_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hypot:

?S: This variable conditionally defines HAS\_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS\_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d\_hypot HAS\_HYPOT /\*\*/

?H:.

?LINT:set d\_hypot

: see if hypot exists

set hypot d\_hypot

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_hypot.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_getfsstat : Inlibc
?MAKE: -pick add $@ %<
?S:d_getfsstat:
?S: This variable conditionally defines the HAS_GETFSSTAT symbol, which
?S: indicates to the C program that the getfsstat() routine is available.
?S:.
?C:HAS_GETFSSTAT:
?C: This symbol, if defined, indicates that the getfsstat routine is
?C: available to stat filesystems in bulk.
?C:.
?H:#$d_getfsstat HAS_GETFSSTAT /**/
?H:.
?LINT:set d_getfsstat
: see if getfsstat exists
set getfsstat d_getfsstat
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getfsstat.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_unsetenv: Inlibc
?MAKE: -pick add $@ %<
?S:d_unsetenv:
?S: This variable conditionally defines the HAS_UNSETENV symbol, which
?S: indicates to the C program that the unsetenv () routine is available.
?S:.
?C:HAS_UNSETENV:
?C: This symbol, if defined, indicates that the unsetenv () routine is
?C: available for use.
?C:.
?H:#$d_unsetenv HAS_UNSETENV /**/
?H:.
?LINT:set d_unsetenv
: see if unsetenv exists
set unsetenv d_unsetenv
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_unsetenv.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_remainder:

?S: This variable conditionally defines the HAS\_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS\_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d\_remainder HAS\_REMAINDER /\*\*/

?H:.

?LINT:set d\_remainder

: see if remainder exists

set remainder d\_remainder

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_remainder.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getmnt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getmnt:

?S: This variable conditionally defines the HAS\_GETMNT symbol, which

?S: indicates to the C program that the getmnt() routine is available

?S: to retrieve one or more mount info blocks by filename.

?S:.

?C:HAS\_GETMNT:

?C: This symbol, if defined, indicates that the getmnt routine is

?C: available to get filesystem mount info by filename.

?C:.

?H:#\$d\_getmnt HAS\_GETMNT /\*\*/

?H:.

?LINT:set d\_getmnt

: see if getmnt exists

```
set getmnt d_getmnt
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
No license file was found, but licenses were detected in source scan.
```

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?RCS:

?MAKE:d\_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atanh:

?S: This variable conditionally defines the HAS\_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS\_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d\_atanh HAS\_ATANH /\*\*/

?H:.

?LINT:set d\_atanh

: see if atanh exists

set atanh d\_atanh

eval \$inlibc

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_atanh.U
No license file was found, but licenses were detected in source scan.
```

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_frexp: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_frexp:

?S: This variable conditionally defines the HAS\_FREXP symbol, which

?S: indicates to the C program that the frexp() routine is available.

?S:.

?C:HAS\_FREXP:

?C: This symbol, if defined, indicates that the frexp routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d\_frexp HAS\_FREXP /\*\*/

?H:.

?LINT:set d\_frexp

: see if frexp exists

set frexp d\_frexp

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_frexp.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_isfinitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isfinitel:

?S: This variable conditionally defines the HAS\_ISFINITEL symbol, which

?S: indicates to the C program that the isfinitel() routine is available.

?S:.

?C:HAS\_ISFINITEL:

?C: This symbol, if defined, indicates that the isfinitel routine is

?C: available to check whether a long double is finite.

?C: (non-infinity non-NaN).

?C:.

?H:#\$d\_isfinitel HAS\_ISFINITEL /\*\*/

?H:.

?LINT:set d\_isfinitel

: see if isfinitel exists

set isfinitel d\_isfinitel

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_isfinitel.U

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?RCS:

?MAKE:d\_getaddrinfo: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_getaddrinfo:  
 ?S: This variable conditionally defines the HAS\_GETADDRINFO symbol,  
 ?S: which indicates to the C program that the getaddrinfo() function  
 ?S: is available.  
 ?S:.  
 ?C:HAS\_GETADDRINFO:  
 ?C: This symbol, if defined, indicates that the getaddrinfo() function  
 ?C: is available for use.  
 ?C:.  
 ?H:#\$d\_getaddrinfo HAS\_GETADDRINFO /\*\*/  
 ?H:.  
 ?LINT:set d\_getaddrinfo  
 : see if getaddrinfo exists  
 set getaddrinfo d\_getaddrinfo  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getaddrinfo.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
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 ?RCS:  
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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_accessx: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_accessx:  
 ?S: This variable conditionally defines the HAS\_ACCESSX symbol, which  
 ?S: indicates to the C program that the accessx() routine is available.  
 ?S:.  
 ?C:HAS\_ACCESSX :  
 ?C: This symbol, if defined, indicates that the accessx routine is  
 ?C: available to do extended access checks.  
 ?C:.  
 ?H:#\$d\_accessx HAS\_ACCESSX /\*\*/  
 ?H:.  
 ?LINT:set d\_accessx  
 : see if accessx exists  
 set accessx d\_accessx  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d\_accessx.U

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?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llrint:

?S: This variable conditionally defines the HAS\_LLRLINT symbol, which

?S: indicates to the C program that the llrint() routine is available

?S: to return the long long value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LLRLINT:

?C: This symbol, if defined, indicates that the llrint routine is

?C: available to return the long long value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_llrint HAS\_LLRLINT /\*\*/

?H:.

?LINT:set d\_llrint

: see if llrint exists

set llrint d\_llrint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_llrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sunmath.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sunmath: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sunmath:

?S: This variable conditionally defines the I\_SUNMATH symbol, and indicates

?S: whether a C program should include <sunmath.h>.

?S:.

?C:I\_SUNMATH:

?C: This symbol, if defined, indicates that <sunmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sunmath I\_SUNMATH /\*\*/

?H:.



```
?LINT:set i_sunmath
: see if this is a sunmath.h system
set sunmath.h i_sunmath
eval $inhdr
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
No license file was found, but licenses were detected in source scan.
```

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_acosh:

?S: This variable conditionally defines the HAS\_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS\_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d\_acosh HAS\_ACOSH /\*\*/

?H:.

```
?LINT:set d_acosh
```

```
: see if acosh exists
```

```
set acosh d_acosh
```

```
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U
No license file was found, but licenses were detected in source scan.
```

?RCS: \$Id: i\_mntent.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_mntent: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_mntent:

?S: This variable conditionally defines the I\_MNTENT symbol, and indicates

?S: whether a C program should include <mntent.h>.

?S:.

?C:I\_MNTENT:

?C: This symbol, if defined, indicates that <mntent.h> exists and

?C: should be included.

?C:.

?H:#\$i\_mntent I\_MNTENT /\*\*/

?H:.

?LINT:set i\_mntent

: see if this is a mntent.h system

set mntent.h i\_mntent

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_mntent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysmount.U,v \$

?RCS:

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?RCS:

?MAKE:i\_sysmount: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysmount:

?S: This variable conditionally defines the I\_SYSMOUNT symbol,

?S: and indicates whether a C program should include <sys/mount.h>.

?S:.

?C:I\_SYS\_MOUNT:

?C: This symbol, if defined, indicates that <sys/mount.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysmount I\_SYS\_MOUNT /\*\*/

?H:.

?LINT:set i\_sysmount

: see if this is a sys/mount.h system

set sys/mount.h i\_sysmount

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysmount.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root  
?RCS: of the source tree for dist 4.0.  
?RCS:  
?RCS: \$Log: Null.U,v \$  
?RCS: Revision 3.0 1993/08/18 12:05:10 ram  
?RCS: Baseline for dist 3.0 netwide release.  
?RCS:  
?X:  
?X: This unit ends up producing shell code to set all variables to ". This  
?X: probably isn't necessary, but I'm paranoid. About certain things.  
?X:  
?MAKE:Null: Head  
?MAKE: -pick add.Null \$@ %<

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U  
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_exp2: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_exp2:  
?S: This variable conditionally defines the HAS\_EXP2 symbol, which  
?S: indicates to the C program that the exp2() routine is available.  
?S:.  
?C:HAS\_EXP2:  
?C: This symbol, if defined, indicates that the exp2 routine is  
?C: available to do the 2\*\*x function.  
?C:.  
?H:#\$d\_exp2 HAS\_EXP2 /\*\*/  
?H:.  
?LINT:set d\_exp2  
: see if exp2 exists  
set exp2 d\_exp2  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_exp2.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2019 Karl Williamson  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
 ?MAKE:d\_towlower: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_towlower:  
 ?S: This variable conditionally defines the HAS\_TOWLOWER symbol, which  
 ?S: indicates to the C program that the towlower() routine is available.  
 ?S:.  
 ?C:HAS\_TOWLOWER:  
 ?C: This symbol, if defined, indicates that the towlower () routine is  
 ?C: available to do case conversion.  
 ?C:.  
 ?H:#\$d\_towlower HAS\_TOWLOWER /\*\*/  
 ?H:.  
 ?LINT:set d\_towlower  
 : see if towlower exists  
 set towlower d\_towlower  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_towlower.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
 ?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_unordered: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_unordered:  
 ?S: This variable conditionally defines the HAS\_UNORDERED symbol, which  
 ?S: indicates to the C program that the unordered() routine is available.  
 ?S:.  
 ?C:HAS\_UNORDERED:  
 ?C: This symbol, if defined, indicates that the unordered routine is  
 ?C: available to check whether two doubles are unordered  
 ?C: (effectively: whether either of them is NaN)  
 ?C:.  
 ?H:#\$d\_unordered HAS\_UNORDERED /\*\*/  
 ?H:.  
 ?LINT:set d\_unordered  
 : see if unordered exists  
 set unordered d\_unordered  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_unordered.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysuio.U,v \$

?RCS:

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?RCS:

?MAKE:i\_sysuio: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_sysuio:

?S: This variable conditionally defines the I\_SYSUIO symbol, and indicates

?S: whether a C program should include <sys/uio.h>.

?S:.

?C:I\_SYSUIO:

?C: This symbol, if defined, indicates that <sys/uio.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysuio I\_SYSUIO /\*\*/

?H:.

?LINT:set i\_sysuio

: see if this is a sys/uio.h system

set sys/uio.h i\_sysuio

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i\_sysuio.U

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?RCS:

?MAKE:d\_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llroundl:

?S: This variable conditionally defines the HAS\_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS\_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_llroundl HAS\_LLROUNDL /\*\*/

?H:.

?LINT:set d\_llroundl  
: see if llroundl exists  
set llroundl d\_llroundl  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_llroundl.U

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?RCS:

?MAKE:d\_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_logb:

?S: This variable conditionally defines the HAS\_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS\_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d\_logb HAS\_LOGB /\*\*/

?H:.

?LINT:set d\_logb

: see if logb exists

set logb d\_logb

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_logb.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysstatvfs.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysstatvfs:

?S: This variable conditionally defines the I\_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I\_SYS\_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysstatvfs I\_SYS\_STATVFS /\*\*/

?H:.

?LINT:set i\_sysstatvfs

: see if this is a sys/statvfs.h system

set sys/statvfs.h i\_sysstatvfs

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysstatvfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_crypt.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_crypt:

?S: This variable conditionally defines the I\_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.

?S:.

?C:I\_CRYPT:

?C: This symbol, if defined, indicates that <crypt.h> exists and

?C: should be included.

?C:.

?H:#\$i\_crypt I\_CRYPT /\*\*/

?H:.

?LINT:set i\_crypt

: see if this is a crypt.h system

set crypt.h i\_crypt

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_crypt.U

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?RCS:

?MAKE:d\_fmax: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fmax:

?S: This variable conditionally defines the HAS\_FMAX symbol, which

?S: indicates to the C program that the fmax() routine is available.

?S:.

?C:HAS\_FMAX:

?C: This symbol, if defined, indicates that the fmax routine is

?C: available to do the maximum function.

?C:.

?H:#\$d\_fmax HAS\_FMAX /\*\*/

?H:.

?LINT:set d\_fmax

: see if fmax exists

set fmax d\_fmax

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fmax.U

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?RCS:

?MAKE:d\_nextafter: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nextafter:

?S: This variable conditionally defines HAS\_NEXTAFTER if nextafter()

?S: is available to return the next machine representable double from

?S: x in direction y.

?S:.

?C:HAS\_NEXTAFTER:

?C: This symbol, if defined, indicates that the nextafter routine is

?C: available to return the next machine representable double from

?C: x in direction y.

?C:.

?H:#\$d\_nextafter HAS\_NEXTAFTER /\*\*/

?H:.

?LINT:set d\_nextafter

: see if nextafter exists

set nextafter d\_nextafter

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nextafter.U

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?RCS: \$Id\$

?RCS:

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?RCS:



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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_atolf: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_atolf:  
 ?S: This variable conditionally defines the HAS\_ATOLF symbol, which  
 ?S: indicates to the C program that the atolf() routine is available.  
 ?S:.  
 ?C:HAS\_ATOLF:  
 ?C: This symbol, if defined, indicates that the atolf routine is  
 ?C: available to convert strings into long doubles.  
 ?C:.  
 ?H:#\$d\_atolf HAS\_ATOLF /\*\*/  
 ?H:.  
 ?LINT:set d\_atolf  
 : see if atolf exists  
 set atolf d\_atolf  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_ustat.U,v \$  
 ?RCS:  
 ?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
 ?RCS:  
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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:i\_ustat: Inhdr Hasfield  
 ?MAKE: -pick add \$@ %<  
 ?S:i\_ustat:  
 ?S: This variable conditionally defines the I\_USTAT symbol, and indicates  
 ?S: whether a C program should include <ustat.h>.  
 ?S:.  
 ?C:I\_USTAT:  
 ?C: This symbol, if defined, indicates that <ustat.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_ustat I\_USTAT /\*\*/  
 ?H:.  
 ?LINT:set i\_ustat  
 : see if this is a ustat.h system  
 set ustat.h i\_ustat  
 eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_ustat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysmode.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysmode: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysmode:

?S: This variable conditionally defines the I\_SYSMODE symbol,

?S: and indicates whether a C program should include <sys/mode.h>.

?S:.

?C:I\_SYSMODE:

?C: This symbol, if defined, indicates that <sys/mode.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysmode I\_SYSMODE /\*\*/

?H:.

?LINT:set i\_sysmode

: see if this is a sys/mode.h system

set sys/mode.h i\_sysmode

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysmode.U

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?RCS:

?MAKE:d\_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrint:

?S: This variable conditionally defines the HAS\_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrint HAS\_LRINT /\*\*/

?H:.

?LINT:set d\_lrint

: see if lrint exists

set lrint d\_lrint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lrint.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram \$

\*

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\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* Original Author: unknown, got this off net.sources

\*

\* \$Log: getopt.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:40 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_copysign:

?S: This variable conditionally defines the HAS\_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS\_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d\_copysign HAS\_COPYSIGN /\*\*/

?H:.

?LINT:set d\_copysign

: see if copysign exists

set copysign d\_copysign

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_copysign.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strnlen: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strnlen:

?S: This variable conditionally defines the HAS\_STRNLEN symbol, which

?S: indicates to the C program that the strnlen () routine is available.

?S:.

?C:HAS\_STRNLEN:

?C: This symbol, if defined, indicates that the strnlen () routine is

?C: available to check the length of a string up to a maximum.

?C:.

?H:#\$d\_strnlen HAS\_STRNLEN /\*\*/

?H:.

?LINT:set d\_strnlen

: see if strnlen exists

set strnlen d\_strnlen

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strnlen.U

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?RCS:  
 ?MAKE:d\_timegm: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_timegm:  
 ?S: This variable conditionally defines the HAS\_TIMEGM symbol, which  
 ?S: indicates to the C program that the timegm () routine is available.  
 ?S:.  
 ?C:HAS\_TIMEGM:  
 ?C: This symbol, if defined, indicates that the timegm routine is  
 ?C: available to do the opposite of gmtime ()  
 ?C:.  
 ?H:#\$d\_timegm HAS\_TIMEGM /\*\*/  
 ?H:.  
 ?LINT:set d\_timegm  
 : see if timegm exists  
 set timegm d\_timegm  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_timegm.U  
 No license file was found, but licenses were detected in source scan.

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 ?RCS: License or the Artistic License, as specified in the README file.

?RCS:  
 ?MAKE:d\_fegetround: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fegetround:  
 ?S: This variable conditionally defines HAS\_FEGETROUND if fegetround() is  
 ?S: available to get the floating point rounding mode.  
 ?S:.  
 ?C:HAS\_FEGETROUND:  
 ?C: This symbol, if defined, indicates that the fegetround routine is  
 ?C: available to return the macro corresponding to the current rounding  
 ?C: mode.  
 ?C:.  
 ?H:#\$d\_fegetround HAS\_FEGETROUND /\*\*/  
 ?H:.  
 ?LINT:set d\_fegetround  
 : see if fegetround exists  
 set fegetround d\_fegetround  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fegetround.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:  
 ?RCS: Copyright (c) 1999 Jarkko Hietaniemi  
 ?RCS:  
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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_fstatfs : Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fstatfs:  
 ?S: This variable conditionally defines the HAS\_FSTATFS symbol, which  
 ?S: indicates to the C program that the fstatfs() routine is available.  
 ?S:.  
 ?C:HAS\_FSTATFS:  
 ?C: This symbol, if defined, indicates that the fstatfs routine is  
 ?C: available to stat filesystems by file descriptors.  
 ?C:.  
 ?H:#\$d\_fstatfs HAS\_FSTATFS /\*\*/  
 ?H:.  
 ?LINT:set d\_fstatfs  
 : see if fstatfs exists  
 set fstatfs d\_fstatfs  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fstatfs.U  
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public  
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 ?RCS:  
 ?MAKE:d\_lround: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_lround:  
 ?S: This variable conditionally defines the HAS\_LROUND symbol, which  
 ?S: indicates to the C program that the lround() routine is available  
 ?S: to return the integral value nearest to x.  
 ?S:.  
 ?C:HAS\_LROUND:  
 ?C: This symbol, if defined, indicates that the lround routine is  
 ?C: available to return the nearest integral value.  
 ?C:.  
 ?H:#\$d\_lround HAS\_LROUND /\*\*/  
 ?H:.  
 ?LINT:set d\_lround  
 : see if lround exists  
 set lround d\_lround  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_around.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_poll.U,v \$

?RCS:

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?RCS:

?MAKE:i\_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_langinfo:

?S: This variable conditionally defines the I\_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I\_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i\_langinfo I\_LANGINFO /\*\*/

?H:.

?LINT:set i\_langinfo

: see if this is a langinfo.h system

set langinfo.h i\_langinfo

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_langinfo.U

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?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d\_dup3: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_dup3:

?S: This variable conditionally defines HAS\_DUP3 if dup3() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS\_DUP3:

?C: This symbol, if defined, indicates that the dup3 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d\_dup3 HAS\_DUP3 /\*\*/

?H:.

?LINT:set d\_dup3

: see if dup3 exists

set dup3 d\_dup3

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_dup3.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_atoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atoll:

?S: This variable conditionally defines the HAS\_ATOLL symbol, which

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS\_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d\_atoll HAS\_ATOLL /\*\*/

?H:.

?LINT:set d\_atoll

: see if atoll exists

set atoll d\_atoll

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U

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?RCS:



?MAKE:d\_socks5\_init: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_socks5\_init:  
?S: This variable conditionally defines the HAS\_SOCKS5\_INIT symbol, which  
?S: indicates to the C program that the socks5\_init() routine is available.  
?S:.  
?C:HAS\_SOCKS5\_INIT:  
?C: This symbol, if defined, indicates that the socks5\_init routine is  
?C: available to initialize SOCKS 5.  
?C:.  
?H:#\$d\_socks5\_init HAS\_SOCKS5\_INIT /\*\*/  
?H:.  
?LINT:set d\_socks5\_init  
: see if socks5\_init exists  
set socks5\_init d\_socks5\_init  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_socks5\_init.U

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?RCS:  
?MAKE:d\_isinfl: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_isinfl:  
?S: This variable conditionally defines the HAS\_ISINFL symbol, which  
?S: indicates to the C program that the isinfl() routine is available.  
?S:.  
?C:HAS\_ISINFL:  
?C: This symbol, if defined, indicates that the isinfl routine is  
?C: available to check whether a long double is an infinity.  
?C:.  
?H:#\$d\_isinfl HAS\_ISINFL /\*\*/  
?H:.  
?LINT:set d\_isinfl  
: see if isinfl exists  
set isinfl d\_isinfl  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_isinfl.U

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Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl

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?RCS:

?MAKE:d\_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_round:

?S: This variable conditionally defines the HAS\_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS\_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d\_round HAS\_ROUND /\*\*/

?H:.

?LINT:set d\_round

: see if round exists

set round d\_round

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_round.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U

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?RCS:

?MAKE:d\_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma:

?S: This variable conditionally defines the HAS\_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d\_tgamma and d\_lgamma\_r.

?S:.

?C:HAS\_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS\_TGAMMA and

?C: HAS\_LGAMMA\_R.

?C:.

?H:#\$d\_lgamma HAS\_LGAMMA /\*\*/

?H:.

?LINT:set d\_lgamma

: see if lgamma exists

set lgamma d\_lgamma

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lgamma.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_sqrtl:

?S: This variable conditionally defines the HAS\_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS\_SQRTL:

?C: This symbol, if defined, indicates that the sqrt routine is

?C: available to do long double square roots.

?C:.

?H:#\$d\_sqrt HAS\_SQRTL /\*\*/

?H:.

?LINT:set d\_sqrt

: see if sqrt exists

set sqrt d\_sqrt

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_sqrt.U

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?RCS:

?MAKE:d\_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_clearenv:

?S: This variable conditionally defines the HAS\_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS\_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d\_clearenv HAS\_CLEARENV /\*\*/

?H:.

?LINT:set d\_clearenv

: see if clearenv exists

set clearenv d\_clearenv

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_clearenv.U

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?RCS: \$Id: i\_ieeefp.U,v \$

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?RCS:

?MAKE:i\_ieeeFP: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_ieeeFP:

?S: This variable conditionally defines the I\_IEEEFP symbol, and indicates

?S: whether a C program should include <ieeeFP.h>.

?S:.

?C:I\_IEEEFP:

?C: This symbol, if defined, indicates that <ieeeFP.h> exists and

?C: should be included.

?C:.

?H:#\$i\_ieeeFP I\_IEEEFP /\*\*/

?H:.

?LINT:set i\_ieeeFP

: see if this is a ieeeFP.h system

case "\$i\_ieeeFP" in

" ) set ieeeFP.h i\_ieeeFP

eval \$inhdr

;;

esac

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_ieeeFP.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_isnanl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isnanl:

?S: This variable conditionally defines the HAS\_ISNANL symbol, which

?S: indicates to the C program that the isnanl() routine is available.

?S:.

?C:HAS\_ISNANL:

?C: This symbol, if defined, indicates that the isnanl routine is

?C: available to check whether a long double is a NaN.

?C:.

?H:#\$d\_isnanl HAS\_ISNANL /\*\*/

?H:.

?LINT:set d\_isnanl

: see if isnanl exists

```
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_isnanl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_libutil.U,v \$

?RCS:

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?RCS:

?MAKE:i\_libutil: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_libutil:

?S: This variable conditionally defines the I\_LIBUTIL symbol, and indicates

?S: whether a C program should include <libutil.h>.

?S:.

?C:I\_LIBUTIL:

?C: This symbol, if defined, indicates that <libutil.h> exists and

?C: should be included.

?C:.

?H:#\$i\_libutil I\_LIBUTIL /\*\*/

?H:.

?LINT:set i\_libutil

: see if this is a libutil.h system

set libutil.h i\_libutil

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_libutil.U

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?RCS:

?MAKE:d\_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fpgetround:

?S: This variable conditionally defines HAS\_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS\_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d\_fpgetround HAS\_FPGETROUND /\*\*/

?H:.

?LINT:set d\_fpgetround

: see if fpgetround exists

set fpgetround d\_fpgetround

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fpgetround.U

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?RCS:

?MAKE:d\_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrintl:

?S: This variable conditionally defines the HAS\_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrintl HAS\_LRINTL /\*\*/

?H:.

?LINT:set d\_lrintl

: see if lrintl exists

set lrintl d\_lrintl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lrintl.U

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?RCS:

?MAKE:d\_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbn:

?S: This variable conditionally defines the HAS\_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS\_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is  
?C: available to multiply floating-point number by integral power  
?C: of radix.  
?C:.  
?H:#\$d\_scalbn HAS\_SCALBN /\*\*/  
?H:.  
?LINT:set d\_scalbn  
: see if scalbn exists  
set scalbn d\_scalbn  
eval \$inlibc

Found in path(s):  
\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_scalbn.U  
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?RCS:  
?MAKE:d\_fsync: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_fsync:  
?S: This variable conditionally defines the HAS\_FSYNC symbol, which  
?S: indicates to the C program that the fsync() routine is available.  
?S:.  
?C:HAS\_FSYNC:  
?C: This symbol, if defined, indicates that the fsync routine is  
?C: available to write a file's modified data and attributes to  
?C: permanent storage.  
?C:.  
?H:#\$d\_fsync HAS\_FSYNC /\*\*/  
?H:.  
?LINT:set d\_fsync  
: see if fsync exists  
set fsync d\_fsync  
eval \$inlibc

Found in path(s):  
\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fsync.U  
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?RCS:

?MAKE:d\_inetntop: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetntop:

?S: This variable conditionally defines the HAS\_INETNTOP symbol,

?S: which indicates to the C program that the inet\_ntop() function

?S: is available.

?S:.

?C:HAS\_INETNTOP:

?C: This symbol, if defined, indicates that the inet\_ntop() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetntop HAS\_INETNTOP /\*\*/

?H:.

?LINT:set d\_inetntop

: see if inet\_ntop exists

set inet\_ntop d\_inetntop

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_inetntop.U

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?RCS:

?MAKE:d\_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fdclose:

?S: This variable conditionally defines the HAS\_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS\_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d\_fdclose HAS\_FDCLOSE /\*\*/

?H:.

?LINT:set d\_fdclose

: see if fdclose exists

set fdclose d\_fdclose

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fdclose.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_bfd.U,v $
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
?S:.
?C:I_BFD:
?C: This symbol, if defined, indicates that <bfd.h> exists and
?C: can be included.
?C:.
?H:#$i_bfd I_BFD /**/
?H:.
?LINT:set i_bfd
: see if this is a bfd.h system
set bfd.h i_bfd
eval $inhdr
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_bfd.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_shadow.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_shadow: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_shadow:
?S: This variable conditionally defines the I_SHADOW symbol, and indicates
?S: whether a C program should include <shadow.h>.
?S:.
?C:I_SHADOW:
?C: This symbol, if defined, indicates that <shadow.h> exists and
?C: should be included.
?C:.
?H:#$i_shadow I_SHADOW /**/
```

?H:.  
?LINT:set i\_shadow  
: see if this is a shadow.h system  
set shadow.h i\_shadow  
eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_shadow.U  
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?RCS:

?MAKE:d\_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_tgamma:

?S: This variable conditionally defines the HAS\_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d\_lgamma.

?S:.

?C:HAS\_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS\_LGAMMA.

?C:.

?H:#\$d\_tgamma HAS\_TGAMMA /\*\*/

?H:.

?LINT:set d\_tgamma

: see if tgamma exists

set tgamma d\_tgamma

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_tgamma.U  
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?RCS:

?MAKE:d\_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetpton:

?S: This variable conditionally defines the HAS\_INETPTON symbol,

?S: which indicates to the C program that the inet\_pton() function

?S: is available.

?S:.

?C:HAS\_INETPTON:

?C: This symbol, if defined, indicates that the inet\_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetpton HAS\_INETPTON /\*\*/

?H:.

?LINT:set d\_inetpton

: see if inet\_pton exists

set inet\_pton d\_inetpton

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_inetpton.U

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?RCS:

?MAKE:d\_lgamma\_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma\_r:

?S: This variable conditionally defines the HAS\_LGAMMA\_R symbol, which

?S: indicates to the C program that the lgamma\_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS\_LGAMMA\_R:

?C: This symbol, if defined, indicates that the lgamma\_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d\_lgamma\_r HAS\_LGAMMA\_R /\*\*/

?H:.

?LINT:set d\_lgamma\_r

: see if lgamma\_r exists

set lgamma\_r d\_lgamma\_r

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lgamma\_r.U

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```
?RCS:
?MAKE:d_readv: Inlibc
?MAKE: -pick add $@ %<
?S:d_readv:
?S: This variable conditionally defines the HAS_READV symbol, which
?S: indicates to the C program that the readv() routine is available.
?S:.
?C:HAS_READV:
?C: This symbol, if defined, indicates that the readv routine is
?C: available to do gather reads. You will also need <sys/uio.h>
?C: and there I_SYSUIO.
?C:.
?H:#$d_readv HAS_READV /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_poll.U,v $
?RCS:
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?RCS:
?MAKE:i_poll: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_poll:
?S: This variable conditionally defines the I_POLL symbol, and indicates
?S: whether a C program should include <poll.h>.
?S:.
?C:I_POLL:
?C: This symbol, if defined, indicates that <poll.h> exists and
?C: should be included. (see also HAS_POLL)
?C:.
?H:#$i_poll I_POLL /**/
?H:.
?LINT:set i_poll
: see if this is a poll.h system
set poll.h i_poll
eval $inhdr
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_poll.U

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?RCS:

?MAKE:d\_qgcvt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_qgcvt:

?S: This variable conditionally defines the HAS\_QGCVT symbol, which

?S: indicates to the C program that the qgcvt() routine is available.

?S:.

?C:HAS\_QGCVT:

?C: This symbol, if defined, indicates that the qgcvt routine is

?C: available to convert long doubles ("quad doubles") to strings.

?C: This is a low-level routine hopefully faster than sprintf.

?C:.

?H:#\$d\_qgcvt HAS\_QGCVT /\*\*/

?H:.

?LINT:set d\_qgcvt

: see if qgcvt exists

set qgcvt d\_qgcvt

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_qgcvt.U

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?RCS:

?MAKE:d\_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strftime:

?S: This variable conditionally defines the HAS\_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS\_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d\_strftime HAS\_STRFTIME /\*\*/

?H:.

?LINT:set d\_strftime

: see if strftime exists

set strftime d\_strftime

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strftime.U

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?RCS:

?MAKE:d\_socketmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_socketmark:

?S: This variable conditionally defines the HAS\_SOCKETMARK symbol, which

?S: indicates to the C program that the socketmark() routine is available.

?S:.

?C:HAS\_SOCKETMARK:

?C: This symbol, if defined, indicates that the socketmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d\_socketmark HAS\_SOCKETMARK /\*\*/

?H:.

?LINT:set d\_socketmark

: see if socketmark exists

set socketmark d\_socketmark

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_socketmark.U

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?RCS:

?MAKE:d\_strtod\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtod\_l:

?S: This variable conditionally defines the HAS\_STRTOD\_L symbol, which

?S: indicates to the C program that the strtod\_l() routine is available.

?S:.

?C:HAS\_STRTOD\_L:

?C: This symbol, if defined, indicates that the strtod\_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtod\_l HAS\_STRTOD\_L /\*\*/

?H:.

?LINT:set d\_strtod\_l

: see if strtod\_l exists

set strtod\_l d\_strtod\_l

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d\_strtod\_l.U

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?RCS:

?MAKE:d\_setproctitle: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setproctitle:

?S: This variable conditionally defines the HAS\_SETPROCTITLE symbol,

?S: which indicates to the C program that the setproctitle() routine

?S: is available.

?S:.

?C:HAS\_SETPROCTITLE:

?C: This symbol, if defined, indicates that the setproctitle routine is

?C: available to set process title.

?C:.

?H:#\$d\_setproctitle HAS\_SETPROCTITLE /\*\*/

?H:.

?LINT:set d\_setproctitle

: see if setproctitle exists

set setproctitle d\_setproctitle

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_setproctitle.U



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```
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?RCS:
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?RCS:
?MAKE:d_sendmsg: Inlibc
?MAKE: -pick add $@ %<
?S:d_sendmsg:
?S: This variable conditionally defines the HAS_SENDMSG symbol, which
?S: indicates to the C program that the sendmsg() routine is available.
?S:.
?C:HAS_SENDMSG:
?C: This symbol, if defined, indicates that the sendmsg routine is
?C: available to send structured socket messages.
?C:.
?H:#$d_sendmsg HAS_SENDMSG /**/
?H:.
?LINT:set d_sendmsg
: see if sendmsg exists
set sendmsg d_sendmsg
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_sendmsg.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_strtold: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtold:
?S: This variable conditionally defines the HAS_STRTOLD symbol, which
?S: indicates to the C program that the strtold() routine is available.
?S:.
?C:HAS_STRTOLD:
?C: This symbol, if defined, indicates that the strtold routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold HAS_STRTOLD /**/
```

?H:.  
?LINT:set d\_strtold  
: see if strtold exists  
set strtold d\_strtold  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strtold.U  
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?RCS: \$Id: i\_sysutsname.U,v \$  
?RCS:  
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?RCS:  
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?RCS:  
?MAKE:i\_sysutsname: Inhdr Hasfield  
?MAKE:-pick add \$@ %<  
?S:i\_sysutsname:  
?S: This variable conditionally defines the I\_SYSUTSNAME symbol,  
?S: and indicates whether a C program should include <sys/utsname.h>.  
?S:.  
?C:I\_SYSUTSNAME:  
?C: This symbol, if defined, indicates that <sys/utsname.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_sysutsname I\_SYSUTSNAME /\*\*/  
?H:.  
?LINT:set i\_sysutsname  
: see if this is a sys/utsname.h system  
set sys/utsname.h i\_sysutsname  
eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysutsname.U  
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?RCS:  
?MAKE:d\_rint: Inlibc  
?MAKE:-pick add \$@ %<  
?S:d\_rint:  
?S: This variable conditionally defines the HAS\_RINT symbol, which  
?S: indicates to the C program that the rint() routine is available.  
?S:.  
?C:HAS\_RINT:

?C: This symbol, if defined, indicates that the rint routine is  
?C: available to return the nearest integral value to x as double  
?C: using the current rounding mode.  
?C:.

?H:#\$d\_rint HAS\_RINT /\*\*/

?H:.

?LINT:set d\_rint

: see if rint exists

set rint d\_rint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_rint.U

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\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/ernolist.mk

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp

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?RCS:

?MAKE:d\_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log1p:

?S: This variable conditionally defines the HAS\_LOG1P symbol, which

?S: indicates to the C program that the log1p() routine is available

?S: to compute  $\log(1 + x)$  for values of x close to zero.

?S:.

?C:HAS\_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d\_log1p HAS\_LOG1P /\*\*/

?H:.

?LINT:set d\_log1p

: see if log1p exists

set log1p d\_log1p

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_log1p.U

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?RCS:

?MAKE:i\_fenv: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_fenv:

?S: This variable conditionally defines the I\_FENV symbol, which

?S: indicates to the C program that <fenv.h> exists and should

?S: be included.

?S:.

?C:I\_FENV:

?C: This symbol, if defined, indicates to the C program that it should

?C: include <fenv.h> to get the floating point environment definitions.

?C:.

?H:#\$i\_fenv I\_FENV /\*\*/

?H:.

?LINT:set i\_fenv

: see if this is a fenv.h system

set fenv.h i\_fenv

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_fenv.U

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?RCS:

?MAKE:d\_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_truncl:

?S: This variable conditionally defines the HAS\_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS\_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d\_truncl HAS\_TRUNCL /\*\*/

?H:.

?LINT:set d\_truncl

: see if truncl exists

set truncl d\_truncl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_trunc1.U

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?RCS: \$Id: i\_shadow.U,v \$

?RCS:

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?RCS:

?MAKE:i\_prot: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_prot:

?S: This variable conditionally defines the I\_PROT symbol, and indicates

?S: whether a C program should include <prot.h>.

?S:.

?C:I\_PROT:

?C: This symbol, if defined, indicates that <prot.h> exists and

?C: should be included.

?C:.

?H:#\$i\_prot I\_PROT /\*\*/

?H:.

?LINT:set i\_prot

: see if this is a prot.h system

set prot.h i\_prot

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_prot.U

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/\*

\* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

\*

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\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* \$Log: scandir.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:45 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C

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?RCS:

?MAKE:d\_strtold\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtold\_l:

?S: This variable conditionally defines the HAS\_STRTOLD\_L symbol, which

?S: indicates to the C program that the strtold\_l() routine is available.

?S:.

?C:HAS\_STRTOLD\_L:

?C: This symbol, if defined, indicates that the strtold\_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtold\_l HAS\_STRTOLD\_L /\*\*/

?H:.

?LINT:set d\_strtold\_l

: see if strtold\_l exists

set strtold\_l d\_strtold\_l

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d\_strtold\_l.U

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?RCS:

?MAKE:i\_stdint: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_stdint:

?S: This variable conditionally defines the I\_STDINT symbol, which

?S: indicates to the C program that <stdint.h> exists and should

?S: be included.

?S:.

?C:I\_STDINT:

?C: This symbol, if defined, indicates that <stdint.h> exists and

?C: should be included.

?C:.

?H:#\$i\_stdint I\_STDINT /\*\*/

?H:.

?LINT:set i\_stdint

: see if stdint is available

set stdint.h i\_stdint

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_stdint.U

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?RCS:

?MAKE:d\_expm1: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_expm1:

?S: This variable conditionally defines the HAS\_EXPM1 symbol, which

?S: indicates to the C program that the expm1() routine is available.

?S:.

?C:HAS\_EXPM1:

?C: This symbol, if defined, indicates that the expm1 routine is

?C: available to do the exp(x) - 1 when x is near 1 function.

?C:.

?H:#\$d\_expm1 HAS\_EXPM1 /\*\*/

?H:.

?LINT:set d\_expm1

: see if expm1 exists

set expm1 d\_expm1

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_expm1.U

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?RCS:

?MAKE:d\_fchdir: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fchdir:

?S: This variable conditionally defines the HAS\_FCHDIR symbol, which

?S: indicates to the C program that the fchdir() routine is available.

?S:.

?C:HAS\_FCHDIR:

?C: This symbol, if defined, indicates that the fchdir routine is

?C: available to change directory using a file descriptor.

?C:.

?H:#\$d\_fchdir HAS\_FCHDIR /\*\*/

?H:.

?LINT:set d\_fchdir

: see if fchdir exists

set fchdir d\_fchdir

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fchdir.U

No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nearbyint:

?S: This variable conditionally defines HAS\_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS\_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d\_nearbyint HAS\_NEARBYINT /\*\*/

?H:.

?LINT:set d\_nearbyint

: see if nearbyint exists

set nearbyint d\_nearbyint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nearbyint.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

\*

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\*

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\* as specified in the README file that comes with the distribution.



- \* You may reuse parts of this distribution only within the terms of
- \* that same Artistic Licence; a copy of which may be found at the root
- \* of the source tree for dist 4.0.
- \*
- \* Original Author: Larry Wall <lwall@netlabs.com>
- \*
- \* \$Log: dup2.C,v \$
- \* Revision 3.0.1.1 1994/01/24 13:58:37 ram
- \* patch16: created
- \*
- \*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 1998 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_eaccess: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_eaccess:

?S: This variable conditionally defines the HAS\_EACCESS symbol, which

?S: indicates to the C program that the eaccess() routine is available.

?S:.

?C:HAS\_EACCESS :

?C: This symbol, if defined, indicates that the eaccess routine is

?C: available to do extended access checks.

?C:.

?H:#\$d\_eaccess HAS\_EACCESS /\*\*/

?H:.

?LINT:set d\_eaccess

: see if eaccess exists

set eaccess d\_eaccess

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d\_eaccess.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_syslog.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_syslog: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_syslog:

?S: This variable conditionally defines the I\_SYSLOG symbol,

?S: and indicates whether a C program should include <syslog.h>.

?S:.

?C:I\_SYSLOG:

?C: This symbol, if defined, indicates that <syslog.h> exists and

?C: should be included.

?C:.

?H:#\$i\_syslog I\_SYSLOG /\*\*/

?H:.

?LINT:set i\_syslog

: see if this is a syslog.h system

set syslog.h i\_syslog

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_syslog.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_getcwd: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getcwd:

?S: This variable conditionally defines the HAS\_GETCWD symbol, which

?S: indicates to the C program that the getcwd() routine is available

?S: to get the current working directory.

?S:.

?C:HAS\_GETCWD :

?C: This symbol, if defined, indicates that the getcwd routine is

?C: available to get the current working directory.

?C:.

?H:#\$d\_getcwd HAS\_GETCWD /\*\*/

?H:.

?LINT:set d\_getcwd

: see if getcwd exists

set getcwd d\_getcwd

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getcwd.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2009 H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getnameinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getnameinfo:

?S: This variable conditionally defines the HAS\_GETNAMEINFO symbol,

?S: which indicates to the C program that the getnameinfo() function

?S: is available.

?S:.

?C:HAS\_GETNAMEINFO:

?C: This symbol, if defined, indicates that the getnameinfo() function

?C: is available for use.

?C:.

?H:#\$d\_getnameinfo HAS\_GETNAMEINFO /\*\*/

?H:.

?LINT:set d\_getnameinfo

: see if getnameinfo exists

set getnameinfo d\_getnameinfo

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getnameinfo.U

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?RCS:

?MAKE:i\_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_quadmath:

?S: This variable conditionally defines I\_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I\_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_quadmath I\_QUADMATH /\*\*/

?H:.  
?LINT:set i\_quadmath  
: see if this is a quadmath.h system  
set quadmath.h i\_quadmath  
eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_quadmath.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_netdb.U,v \$  
?RCS:  
?RCS: Copyright (c) 1998 Andy Dougherty  
?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_netdb: Inhdr  
?MAKE: -pick add \$@ %<  
?S:i\_netdb:  
?S: This variable conditionally defines the I\_NETDB symbol, and indicates  
?S: whether a C program should include <netdb.h>.  
?S:.  
?C:I\_NETDB:  
?C: This symbol, if defined, indicates that <netdb.h> exists and  
?C: should be included.  
?C:.  
?H:#\$i\_netdb I\_NETDB /\*\*/  
?H:.  
?LINT:set i\_netdb  
: see if this is a netdb.h system  
set netdb.h i\_netdb  
eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i\_netdb.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_fp\_class.U,v \$  
?RCS:  
?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_fp\_class: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_fp\_class:

?S: This variable conditionally defines the I\_FP\_CLASS symbol, and indicates

?S: whether a C program should include <fp\_class.h>.

?S:.

?C:I\_FP\_CLASS:

?C: This symbol, if defined, indicates that <fp\_class.h> exists and

?C: should be included.

?C:.

?H:#\$i\_fp\_class I\_FP\_CLASS /\*\*/

?H:.

?LINT:set i\_fp\_class

: see if this is a fp\_class.h system

set fp\_class.h i\_fp\_class

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_fp\_class.U

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?RCS:

?MAKE:d\_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llround:

?S: This variable conditionally defines the HAS\_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS\_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d\_llround HAS\_LLROUND /\*\*/

?H:.

?LINT:set d\_llround

: see if llround exists

set llround d\_llround

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_llround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_writev:

?S: This variable conditionally defines the HAS\_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS\_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d\_writev HAS\_WRITEV /\*\*/

?H:.

?LINT:set d\_writev

: see if writev exists

set writev d\_writev

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_writev.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_mkdtemp: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_mkdtemp:

?S: This variable conditionally defines the HAS\_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtemp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS\_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtemp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d\_mkdtemp HAS\_MKDTEMP /\*\*/

?H:.

?LINT:set d\_mkdtemp

: see if mkdtemp exists

set mkdtemp d\_mkdtemp

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_mkdtemp.U

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?RCS:

?MAKE:d\_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fdim:

?S: This variable conditionally defines the HAS\_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS\_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d\_fdim HAS\_FDIM /\*\*/

?H:.

?LINT:set d\_fdim

: see if fdim exists

set fdim d\_fdim

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fdim.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_aintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_aintl:

?S: This variable conditionally defines the HAS\_AINTL symbol, which

?S: indicates to the C program that the aintl() routine is available.

?S: If copysignl is also present we can emulate modfl.

?S:.

?C:HAS\_AINTL:

?C: This symbol, if defined, indicates that the aintl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d\_aintl HAS\_AINTL /\*\*/

?H:.

?LINT:set d\_aintl  
: see if aintl exists  
set aintl d\_aintl  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_aintl.U  
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?RCS:

?MAKE:d\_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_asinh:

?S: This variable conditionally defines the HAS\_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS\_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d\_asinh HAS\_ASINH /\*\*/

?H:.

?LINT:set d\_asinh

: see if asinh exists

set asinh d\_asinh

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_asinh.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_recvmsg:

?S: This variable conditionally defines the HAS\_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS\_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is



?C: available to send structured socket messages.

?C:.

?H:#\$d\_recvmsg HAS\_RECVMSG /\*\*/

?H:.

?LINT:set d\_recvmsg

: see if recvmsg exists

set recvmsg d\_recvmsg

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_recvmsg.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

\*

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\*

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\* of the source tree for dist 4.0.

\*

\* \$Log: setsid.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:47 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

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?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:  
?X: The purpose of this file is to supply an empty target for the private  
?X: Makefile built by metaconfig to order the units.  
?X:  
?MAKE:Nothing: Head

Found in path(s):  
\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U  
No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
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?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_fseeko: Inlibc longsize  
?MAKE: -pick add \$@ %<  
?S:d\_fseeko:  
?S: This variable conditionally defines the HAS\_FSEEKO symbol, which  
?S: indicates to the C program that the fseeko() routine is available.  
?S:.  
?C:HAS\_FSEEKO:  
?C: This symbol, if defined, indicates that the fseeko routine is  
?C: available to fseek beyond 32 bits (useful for ILP32 hosts).  
?C:.  
?H:#\$d\_fseeko HAS\_FSEEKO /\*\*/  
?H:.  
?LINT:set d\_fseeko  
: see if fseeko exists  
set fseeko d\_fseeko  
eval \$inlibc  
case "\$longsize" in  
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;  
esac

Found in path(s):  
\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fseeko.U  
No license file was found, but licenses were detected in source scan.

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?RCS:  
?MAKE:d\_lroundl: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_lroundl:  
?S: This variable conditionally defines the HAS\_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS\_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_lroundl HAS\_LROUNDL /\*\*/

?H:.

?LINT:set d\_lroundl

: see if lroundl exists

set lroundl d\_lroundl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lroundl.U

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?RCS:

?MAKE:d\_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_erfc:

?S: This variable conditionally defines the HAS\_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS\_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d\_erfc HAS\_ERFC /\*\*/

?H:.

?LINT:set d\_erfc

: see if erfc exists

set erfc d\_erfc

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_erfc.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_strtoq: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtoq:

?S: This variable conditionally defines the HAS\_STRTOQ symbol, which

?S: indicates to the C program that the strtq() routine is available.

?S:.

?C:HAS\_STRTOQ:

?C: This symbol, if defined, indicates that the strtq routine is

?C: available to convert strings to long longs (quads).

?C:.

?H:#\$d\_strtoq HAS\_STRTOQ /\*\*/

?H:.

?LINT:set d\_strtoq

: see if strtq exists

set strtq d\_strtoq

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strtoq.U

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?RCS:

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?RCS:

?MAKE:d\_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getitimer:

?S: This variable conditionally defines the HAS\_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS\_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d\_getitimer HAS\_GETITIMER /\*\*/

?H:.

?LINT:set d\_getitimer

: see if getitimer exists

set getitimer d\_getitimer

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getitimer.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

\*

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\* of the source tree for dist 4.0.

\*

\* \$Log: rename.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:42 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log2:

?S: This variable conditionally defines the HAS\_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS\_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d\_log2 HAS\_LOG2 /\*\*/

?H:.

?LINT:set d\_log2

: see if log2 exists

set log2 d\_log2

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_log2.U

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?RCS:

?MAKE:d\_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_trunc:

?S: This variable conditionally defines the HAS\_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS\_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d\_trunc HAS\_TRUNC /\*\*/

?H:.

?LINT:set d\_trunc

: see if trunc exists

set trunc d\_trunc

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_trunc.U

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?RCS:

?MAKE:d\_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nexttoward:

?S: This variable conditionally defines HAS\_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS\_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d\_nexttoward HAS\_NEXTTOWARD /\*\*/

?H:.

?LINT:set d\_nexttoward

: see if nexttoward exists

set nexttoward d\_nexttoward

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nexttoward.U

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?RCS:

?MAKE:d\_ualarm: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ualarm:

?S: This variable conditionally defines the HAS\_UALARM symbol, which

?S: indicates to the C program that the ualarm() routine is available.

?S:.

?C:HAS\_UALARM:

?C: This symbol, if defined, indicates that the ualarm routine is

?C: available to do alarms with microsecond granularity.

?C:.

?H:#\$d\_ualarm HAS\_UALARM /\*\*/

?H:.

?LINT:set d\_ualarm

: see if ualarm exists

set ualarm d\_ualarm

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_ualarm.U

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?RCS:

?MAKE:d\_towupper: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_towupper:

?S: This variable conditionally defines the HAS\_TOWUPPER symbol, which

?S: indicates to the C program that the towupper() routine is available.

?S:.

?C:HAS\_TOWUPPER:

?C: This symbol, if defined, indicates that the towupper () routine is

?C: available to do case conversion.

?C:.

?H:#\$d\_towupper HAS\_TOWUPPER /\*\*/

?H:.

?LINT:set d\_towupper

: see if towupper exists

set towupper d\_towupper

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_towupper.U

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?RCS:

?MAKE:d\_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_remquo:

?S: This variable conditionally defines the HAS\_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS\_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d\_remquo HAS\_REMQUO /\*\*/

?H:.

?LINT:set d\_remquo

: see if remquo exists

set remquo d\_remquo

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_remquo.U

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?RCS:

?MAKE:d\_copysignl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_copysignl:

?S: This variable conditionally defines the HAS\_COPYSIGNL symbol, which



?S: indicates to the C program that the copysignl() routine is available.

?S: If aintl is also present we can emulate modfl.

?S:.

?C:HAS\_COPYSIGNL:

?C: This symbol, if defined, indicates that the copysignl routine is

?C: available. If aintl is also present we can emulate modfl.

?C:.

?H:#\$d\_copysignl HAS\_COPYSIGNL /\*\*/

?H:.

?LINT:set d\_copysignl

: see if copysignl exists

set copysignl d\_copysignl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_copysignl.U

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?RCS:

?MAKE:d\_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_erf:

?S: This variable conditionally defines the HAS\_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS\_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d\_erf HAS\_ERF /\*\*/

?H:.

?LINT:set d\_erf

: see if erf exists

set erf d\_erf

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_erf.U

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?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.  
?X:  
?X: Useless unit dropped. Use randfunc instead.  
?X:  
?LINT:empty

Found in path(s):  
\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U  
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?RCS:  
?MAKE:d\_finite: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_finite:  
?S: This variable conditionally defines the HAS\_FINITE symbol, which  
?S: indicates to the C program that the finite() routine is available.  
?S:.  
?C:HAS\_FINITE:  
?C: This symbol, if defined, indicates that the finite routine is  
?C: available to check whether a double is finite (non-infinity non-NaN).  
?C:.  
?H:#\$d\_finite HAS\_FINITE /\*\*/  
?H:.  
?LINT:set d\_finite  
: see if finite exists  
set finite d\_finite  
eval \$inlibc

Found in path(s):  
\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_finite.U  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setitimer:

?S: This variable conditionally defines the HAS\_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS\_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

?C:.

?H:#\$d\_setitimer HAS\_SETITIMER /\*\*/

?H:.

?LINT:set d\_setitimer

: see if setitimer exists

set setitimer d\_setitimer

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_setitimer.U

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?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:full\_ar: ar

?MAKE: -pick add \$@ %<

?S:full\_ar:

?S: This variable contains the full pathname to 'ar', whether or

?S: not the user has specified 'portability'. This is only used

?S: in the Makefile.SH.

?S:.

: Store the full pathname to the ar program for use in the C program

: Respect a hint or command line value for full\_ar.

case "\$full\_ar" in

") full\_ar=\$ar ;;

esac

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc\_ar.U

# 1.156 perl-base 5.34.0-3ubuntu1.3

## 1.156.1 Available under license :

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?RCS: \$Id: i\_sysstatfs.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysstatfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysstatfs:

?S: This variable conditionally defines the I\_SYSSTATFS symbol,

?S: and indicates whether a C program should include <sys/statfs.h>.

?S:.

?C:I\_SYS\_STATFS:

?C: This symbol, if defined, indicates that <sys/statfs.h> exists.

?C:.

?H:#\$i\_sysstatfs I\_SYS\_STATFS /\*\*/

?H:.

?LINT:set i\_sysstatfs

: see if this is a sys/statfs.h system

set sys/statfs.h i\_sysstatfs

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysstatfs.U

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?RCS:

?MAKE:d\_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fma:

?S: This variable conditionally defines the HAS\_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:.

?C:HAS\_FMA:

?C: This symbol, if defined, indicates that the fma routine is

?C: available to do the multiply-add function.

?C:.

?H:#\$d\_fma HAS\_FMA /\*\*/

?H:.

```
?LINT:set d_fma
: see if fma exists
set fma d_fma
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fma.U
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```

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?RCS:

?MAKE:d\_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fmin:

?S: This variable conditionally defines the HAS\_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS\_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d\_fmin HAS\_FMIN /\*\*/

?H:.

```
?LINT:set d_fmin
```

```
: see if fmin exists
```

```
set fmin d_fmin
```

```
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmin.U
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```

\* Feel free to modify any of this as the need arises.&nbsp;&nbsp; Note, however,

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss
No license file was found, but licenses were detected in source scan.
```

```

?RCS: $Id: i_sysvfs.U,v $
?RCS:
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?RCS:
?MAKE:i_sysvfs: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysvfs:
?S: This variable conditionally defines the I_SYSVFS symbol,
?S: and indicates whether a C program should include <sys/vfs.h>.
?S:.
?C:I_SYS_VFS:
?C: This symbol, if defined, indicates that <sys/vfs.h> exists and
?C: should be included.
?C:.
?H:#$i_sysvfs I_SYS_VFS /**/
?H:.
?LINT:set i_sysvfs
: see if this is a sys/vfs.h system
set sys/vfs.h i_sysvfs
eval $inhdr

```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysvfs.U

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```

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?RCS:
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?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO /**/
?H:.
?LINT:set d_ftello

```

```
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
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```

```
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?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finitel.U
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```

```
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?RCS:
?MAKE:d_hasmntopt: Inlibc
```

?MAKE: -pick add \$@ %<  
 ?S:d\_hasmntopt:  
 ?S: This variable conditionally defines the HAS\_HASMNTOPT symbol, which  
 ?S: indicates to the C program that the hasmntopt() routine is available  
 ?S: to query the mount options of file systems.  
 ?S:.  
 ?C:HAS\_HASMNTOPT:  
 ?C: This symbol, if defined, indicates that the hasmntopt routine is  
 ?C: available to query the mount options of file systems.  
 ?C:.  
 ?H:#\$d\_hasmntopt HAS\_HASMNTOPT /\*\*/  
 ?H:.  
 ?LINT:set d\_hasmntopt  
 : see if hasmntopt exists  
 set hasmntopt d\_hasmntopt  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_hasmntopt.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_socks.U,v \$  
 ?RCS:  
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 ?RCS:  
 ?MAKE:i\_socks: Inhdr Hasfield  
 ?MAKE: -pick add \$@ %<  
 ?S:i\_socks:  
 ?S: This variable conditionally defines the I\_SOCKS symbol, and indicates  
 ?S: whether a C program should include <socks.h>.  
 ?S:.  
 ?C:I\_SOCKS:  
 ?C: This symbol, if defined, indicates that <socks.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_socks I\_SOCKS /\*\*/  
 ?H:.  
 ?LINT:set i\_socks  
 : see if this is a socks.h system  
 set socks.h i\_socks  
 eval \$inhdr

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_socks.U



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?RCS:

?MAKE:d\_nan: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nan:

?S: This variable conditionally defines HAS\_NAN if nan() is

?S: available to generate NaN.

?S:.

?C:HAS\_NAN:

?C: This symbol, if defined, indicates that the nan routine is

?C: available to generate NaN.

?C:.

?H:#\$d\_nan HAS\_NAN /\*\*/

?H:.

?LINT:set d\_nan

: see if nan exists

set nan d\_nan

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nan.U

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?RCS:

?MAKE:d\_localeconv\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_localeconv\_l:

?S: This variable conditionally defines the HAS\_LOCALECONV\_L symbol, which

?S: indicates to the C program that the localeconv\_l() routine is available.

?S:.

?C:HAS\_LOCALECONV\_L:

?C: This symbol, if defined, indicates that the localeconv\_l routine is

?C: available to query certain information about a locale.

?C:.

?H:#\$d\_localeconv\_l HAS\_LOCALECONV\_L /\*\*/

?H:.

?LINT:set d\_localeconv\_l

: see if localeconv\_l exists

set localeconv\_l d\_localeconv\_l

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d\_localeconv\_1.U

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?RCS:

?MAKE:d\_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbnl:

?S: This variable conditionally defines the HAS\_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.

?S:.

?C:HAS\_SCALBNL:

?C: This symbol, if defined, indicates that the scalbnl routine is

?C: available. If ilogbl is also present we can emulate frexpl.

?C:.

?H:#\$d\_scalbnl HAS\_SCALBNL /\*\*/

?H:.

?LINT:set d\_scalbnl

: see if scalbnl exists

set scalbnl d\_scalbnl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_scalbnl.U

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?RCS: \$Id: i\_fp.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_fp:

?S: This variable conditionally defines the I\_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.

?C:I\_FP:

?C: This symbol, if defined, indicates that <fp.h> exists and

?C: should be included.

?C:.

?H:#\$i\_fp I\_FP /\*\*/

?H:.

?LINT:set i\_fp

: see if this is a fp.h system

set fp.h i\_fp

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_fp.U

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?RCS:

?MAKE:d\_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ilogb:

?S: This variable conditionally defines the HAS\_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS\_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d\_ilogb HAS\_ILOGB /\*\*/

?H:.

?LINT:set d\_ilogb

: see if ilogb exists

set ilogb d\_ilogb

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_ilogb.U

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?RCS:

?MAKE:d\_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hypot:

?S: This variable conditionally defines HAS\_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS\_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d\_hypot HAS\_HYPOT /\*\*/

?H:.

?LINT:set d\_hypot

: see if hypot exists

set hypot d\_hypot

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_hypot.U

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?RCS:

?MAKE:d\_getfsstat : Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getfsstat:

?S: This variable conditionally defines the HAS\_GETFSSTAT symbol, which

?S: indicates to the C program that the getfsstat() routine is available.

?S:.

?C:HAS\_GETFSSTAT:

?C: This symbol, if defined, indicates that the getfsstat routine is

?C: available to stat filesystems in bulk.

?C:.

?H:#\$d\_getfsstat HAS\_GETFSSTAT /\*\*/

?H:.

?LINT:set d\_getfsstat

: see if getfsstat exists

set getfsstat d\_getfsstat

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getfsstat.U

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?RCS:

?MAKE:d\_unsetenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_unsetenv:

?S: This variable conditionally defines the HAS\_UNSETENV symbol, which

?S: indicates to the C program that the unsetenv () routine is available.

?S:.

?C:HAS\_UNSETENV:

?C: This symbol, if defined, indicates that the unsetenv () routine is

?C: available for use.

?C:.

?H:#\$d\_unsetenv HAS\_UNSETENV /\*\*/

?H:.

?LINT:set d\_unsetenv

: see if unsetenv exists

set unsetenv d\_unsetenv

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_unsetenv.U

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?RCS:

?MAKE:d\_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_remainder:

?S: This variable conditionally defines the HAS\_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS\_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

?H:#\$d\_remainder HAS\_REMAINDER /\*\*/

?H:.

?LINT:set d\_remainder

: see if remainder exists

set remainder d\_remainder

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_remainder.U

No license file was found, but licenses were detected in source scan.

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?RCS:  
?MAKE:d\_getmnt: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_getmnt:  
?S: This variable conditionally defines the HAS\_GETMNT symbol, which  
?S: indicates to the C program that the getmnt() routine is available  
?S: to retrieve one or more mount info blocks by filename.  
?S:.  
?C:HAS\_GETMNT:  
?C: This symbol, if defined, indicates that the getmnt routine is  
?C: available to get filesystem mount info by filename.  
?C:.  
?H:#\$d\_getmnt HAS\_GETMNT /\*\*/  
?H:.  
?LINT:set d\_getmnt  
: see if getmnt exists  
set getmnt d\_getmnt  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getmnt.U

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?RCS:  
?MAKE:d\_atanh: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_atanh:  
?S: This variable conditionally defines the HAS\_ATANH symbol, which  
?S: indicates to the C program that the atanh() routine is available.  
?S:.  
?C:HAS\_ATANH:  
?C: This symbol, if defined, indicates that the atanh routine is  
?C: available to do the inverse hyperbolic tangent function.  
?C:.  
?H:#\$d\_atanh HAS\_ATANH /\*\*/  
?H:.  
?LINT:set d\_atanh  
: see if atanh exists  
set atanh d\_atanh  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_atanh.U

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?RCS:

?MAKE:d\_frexp: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_frexp:

?S: This variable conditionally defines the HAS\_FREXP symbol, which

?S: indicates to the C program that the frexp() routine is available.

?S:.

?C:HAS\_FREXP:

?C: This symbol, if defined, indicates that the frexp routine is

?C: available to break a long double floating-point number into

?C: a normalized fraction and an integral power of 2.

?C:.

?H:#\$d\_frexp HAS\_FREXP /\*\*/

?H:.

?LINT:set d\_frexp

: see if frexp exists

set frexp d\_frexp

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_frexp.U

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?RCS:

?MAKE:d\_isfinitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isfinitel:

?S: This variable conditionally defines the HAS\_ISFINITEL symbol, which

?S: indicates to the C program that the isfinitel() routine is available.

?S:.

?C:HAS\_ISFINITEL:

?C: This symbol, if defined, indicates that the isfinitel routine is

?C: available to check whether a long double is finite.

?C: (non-infinity non-NaN).

?C:.

?H:#\$d\_isfinitel HAS\_ISFINITEL /\*\*/

?H:.

?LINT:set d\_isfinitel

: see if isfinitel exists

set isfinitel d\_isfinitel

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_isfinitel.U

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?RCS:

?MAKE:d\_getaddrinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getaddrinfo:

?S: This variable conditionally defines the HAS\_GETADDRINFO symbol,

?S: which indicates to the C program that the getaddrinfo() function

?S: is available.

?S:.

?C:HAS\_GETADDRINFO:

?C: This symbol, if defined, indicates that the getaddrinfo() function

?C: is available for use.

?C:.

?H:#\$d\_getaddrinfo HAS\_GETADDRINFO /\*\*/

?H:.

?LINT:set d\_getaddrinfo

: see if getaddrinfo exists

set getaddrinfo d\_getaddrinfo

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getaddrinfo.U

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?RCS: \$Id\$

?RCS:

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?RCS:



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?RCS:

?MAKE:d\_accessx: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_accessx:

?S: This variable conditionally defines the HAS\_ACCESSX symbol, which

?S: indicates to the C program that the accessx() routine is available.

?S:.

?C:HAS\_ACCESSX :

?C: This symbol, if defined, indicates that the accessx routine is

?C: available to do extended access checks.

?C:.

?H:#\$d\_accessx HAS\_ACCESSX /\*\*/

?H:.

?LINT:set d\_accessx

: see if accessx exists

set accessx d\_accessx

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d\_accessx.U

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?RCS:

?MAKE:d\_llrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llrint:

?S: This variable conditionally defines the HAS\_LLRLINT symbol, which

?S: indicates to the C program that the llrint() routine is available

?S: to return the long long value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LLRLINT:

?C: This symbol, if defined, indicates that the llrint routine is

?C: available to return the long long value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_llrint HAS\_LLRLINT /\*\*/

?H:.

?LINT:set d\_llrint

: see if llrint exists

set llrint d\_llrint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_llrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sunmath.U,v \$

?RCS:

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?RCS:

?MAKE:i\_sunmath: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sunmath:

?S: This variable conditionally defines the I\_SUNMATH symbol, and indicates

?S: whether a C program should include <sunmath.h>.

?S:.

?C:I\_SUNMATH:

?C: This symbol, if defined, indicates that <sunmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sunmath I\_SUNMATH /\*\*/

?H:.

?LINT:set i\_sunmath

: see if this is a sunmath.h system

set sunmath.h i\_sunmath

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sunmath.U

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?RCS:

?MAKE:d\_acosh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_acosh:

?S: This variable conditionally defines the HAS\_ACOSH symbol, which

?S: indicates to the C program that the acosh() routine is available.

?S:.

?C:HAS\_ACOSH:

?C: This symbol, if defined, indicates that the acosh routine is

?C: available to do the inverse hyperbolic cosine function.

?C:.

?H:#\$d\_acosh HAS\_ACOSH /\*\*/

?H:.

?LINT:set d\_acosh

: see if acosh exists

```
set acosh d_acosh
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_acosh.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_mntent.U,v \$

?RCS:

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?RCS:

?MAKE:i\_mntent: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_mntent:

?S: This variable conditionally defines the I\_MNTENT symbol, and indicates

?S: whether a C program should include <mntent.h>.

?S:.

?C:I\_MNTENT:

?C: This symbol, if defined, indicates that <mntent.h> exists and

?C: should be included.

?C:.

?H:#\$i\_mntent I\_MNTENT /\*\*/

?H:.

?LINT:set i\_mntent

: see if this is a mntent.h system

set mntent.h i\_mntent

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_mntent.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysmount.U,v \$

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?RCS:

?MAKE:i\_sysmount: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysmount:

?S: This variable conditionally defines the I\_SYSMOUNT symbol,

?S: and indicates whether a C program should include <sys/mount.h>.

?S:.

?C:I\_SYS\_MOUNT:

?C: This symbol, if defined, indicates that <sys/mount.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysmount I\_SYS\_MOUNT /\*\*/

?H:.

?LINT:set i\_sysmount

: see if this is a sys/mount.h system

set sys/mount.h i\_sysmount

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysmount.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Null.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:10 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: This unit ends up producing shell code to set all variables to ". This

?X: probably isn't necessary, but I'm paranoid. About certain things.

?X:

?MAKE:Null: Head

?MAKE: -pick add.Null \$@ %<

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U

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?RCS:

?MAKE:d\_exp2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_exp2:

?S: This variable conditionally defines the HAS\_EXP2 symbol, which

?S: indicates to the C program that the exp2() routine is available.

?S:.

?C:HAS\_EXP2:

?C: This symbol, if defined, indicates that the exp2 routine is

?C: available to do the 2\*\*x function.

?C:.

?H:#\$d\_exp2 HAS\_EXP2 /\*\*/

?H:.

?LINT:set d\_exp2

: see if exp2 exists

set exp2 d\_exp2

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_exp2.U

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?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_towlower:

?S: This variable conditionally defines the HAS\_TOWLOWER symbol, which

?S: indicates to the C program that the tolower() routine is available.

?S:.

?C:HAS\_TOWLOWER:

?C: This symbol, if defined, indicates that the tolower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d\_towlower HAS\_TOWLOWER /\*\*/

?H:.

?LINT:set d\_towlower

: see if tolower exists

set tolower d\_towlower

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_towlower.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_unordered: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_unordered:

?S: This variable conditionally defines the HAS\_UNORDERED symbol, which

?S: indicates to the C program that the unordered() routine is available.

?S:.

?C:HAS\_UNORDERED:

?C: This symbol, if defined, indicates that the unordered routine is

?C: available to check whether two doubles are unordered

?C: (effectively: whether either of them is NaN)

?C:.

?H:#\$d\_unordered HAS\_UNORDERED /\*\*/

?H:.

?LINT:set d\_unordered

: see if unordered exists

set unordered d\_unordered

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_unordered.U

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?RCS: \$Id: i\_sysuio.U,v \$

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?RCS:

?MAKE:i\_sysuio: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_sysuio:

?S: This variable conditionally defines the I\_SYSUIO symbol, and indicates

?S: whether a C program should include <sys/uio.h>.

?S:.

?C:I\_SYSUIO:

?C: This symbol, if defined, indicates that <sys/uio.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysuio I\_SYSUIO /\*\*/

?H:.

?LINT:set i\_sysuio

: see if this is a sys/uio.h system

set sys/uio.h i\_sysuio

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i\_sysuio.U

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?RCS:

?MAKE:d\_llroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llroundl:

?S: This variable conditionally defines the HAS\_LLROUNDL symbol, which

?S: indicates to the C program that the llroundl() routine is available

?S: to return the long long value nearest to x away from zero.

?S:.

?C:HAS\_LLROUNDL:

?C: This symbol, if defined, indicates that the llroundl routine is

?C: available to return the nearest long long value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_llroundl HAS\_LLROUNDL /\*\*/

?H:.

?LINT:set d\_llroundl

: see if llroundl exists

set llroundl d\_llroundl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_llroundl.U

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?RCS:

?MAKE:d\_logb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_logb:

?S: This variable conditionally defines the HAS\_LOGB symbol, which

?S: indicates to the C program that the logb() routine is available

?S: to extract the exponent of x.

?S:.

?C:HAS\_LOGB:

?C: This symbol, if defined, indicates that the logb routine is

?C: available to do the logb function.

?C:.

?H:#\$d\_logb HAS\_LOGB /\*\*/

?H:.

?LINT:set d\_logb

: see if logb exists

set logb d\_logb

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_logb.U

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?RCS: \$Id: i\_sysstatvfs.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysstatvfs:

?S: This variable conditionally defines the I\_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I\_SYS\_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysstatvfs I\_SYS\_STATVFS /\*\*/

?H:.

?LINT:set i\_sysstatvfs

: see if this is a sys/statvfs.h system

set sys/statvfs.h i\_sysstatvfs

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysstatvfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_crypt.U,v \$

?RCS:

?RCS: Copyright (c) 2002 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_crypt:

?S: This variable conditionally defines the I\_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.



?S:.  
 ?C:I\_CRYPT:  
 ?C: This symbol, if defined, indicates that <crypt.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_crypt I\_CRYPT /\*\*/  
 ?H:.  
 ?LINT:set i\_crypt  
 : see if this is a crypt.h system  
 set crypt.h i\_crypt  
 eval \$inhdr

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_crypt.U  
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_fmax: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fmax:  
 ?S: This variable conditionally defines the HAS\_FMAX symbol, which  
 ?S: indicates to the C program that the fmax() routine is available.  
 ?S:.  
 ?C:HAS\_FMAX:  
 ?C: This symbol, if defined, indicates that the fmax routine is  
 ?C: available to do the maximum function.  
 ?C:.  
 ?H:#\$d\_fmax HAS\_FMAX /\*\*/  
 ?H:.  
 ?LINT:set d\_fmax  
 : see if fmax exists  
 set fmax d\_fmax  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fmax.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
 ?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_fp\_classl: Inlibc

?MAKE: -pick add \$@ %<  
 ?S:d\_fp\_classl:  
 ?S: This variable conditionally defines the HAS\_FP\_CLASSL symbol, which  
 ?S: indicates to the C program that the fp\_classl() routine is available.  
 ?S:.  
 ?C:HAS\_FP\_CLASSL:  
 ?C: This symbol, if defined, indicates that the fp\_classl routine is  
 ?C: available to classify long doubles. Available for example in  
 ?C: Digital UNIX. See for possible values HAS\_FP\_CLASS.  
 ?C:.  
 ?H:#\$d\_fp\_classl HAS\_FP\_CLASSL /\*\*/  
 ?H:.  
 ?LINT:set d\_fp\_classl  
 : see if fp\_classl exists  
 set fp\_classl d\_fp\_classl  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fp\_classl.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_nextafter: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nextafter:

?S: This variable conditionally defines HAS\_NEXTAFTER if nextafter()

?S: is available to return the next machine representable double from

?S: x in direction y.

?S:.

?C:HAS\_NEXTAFTER:

?C: This symbol, if defined, indicates that the nextafter routine is

?C: available to return the next machine representable double from

?C: x in direction y.

?C:.

?H:#\$d\_nextafter HAS\_NEXTAFTER /\*\*/  
 ?H:.

?LINT:set d\_nextafter

: see if nextafter exists

set nextafter d\_nextafter

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nextafter.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

```

?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_atolf: Inlibc
?MAKE: -pick add $@ %<
?S:d_atolf:
?S: This variable conditionally defines the HAS_ATOLF symbol, which
?S: indicates to the C program that the atolf() routine is available.
?S:.
?C:HAS_ATOLF:
?C: This symbol, if defined, indicates that the atolf routine is
?C: available to convert strings into long doubles.
?C:.
?H:#$d_atolf HAS_ATOLF /**/
?H:.
?LINT:set d_atolf
: see if atolf exists
set atolf d_atolf
eval $inlibc

```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U

No license file was found, but licenses were detected in source scan.

```

?RCS: $Id: i_ustat.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_ustat: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_ustat:
?S: This variable conditionally defines the I_USTAT symbol, and indicates
?S: whether a C program should include <ustat.h>.
?S:.
?C:I_USTAT:
?C: This symbol, if defined, indicates that <ustat.h> exists and
?C: should be included.
?C:.
?H:#$i_ustat I_USTAT /**/
?H:.
?LINT:set i_ustat
: see if this is a ustat.h system

```

```
set ustat.h i_ustat
eval $inhdr
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_ustat.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysmode.U,v \$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysmode: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysmode:

?S: This variable conditionally defines the I\_SYSMODE symbol,

?S: and indicates whether a C program should include <sys/mode.h>.

?S:.

?C:I\_SYSMODE:

?C: This symbol, if defined, indicates that <sys/mode.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysmode I\_SYSMODE /\*\*/

?H:.

?LINT:set i\_sysmode

: see if this is a sys/mode.h system

set sys/mode.h i\_sysmode

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysmode.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrint:

?S: This variable conditionally defines the HAS\_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrint HAS\_LRINT /\*\*/

?H:.

?LINT:set d\_lrint

: see if lrint exists

set lrint d\_lrint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lrint.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram \$

\*

\* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

\*

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\* as specified in the README file that comes with the distribution.

\* You may reuse parts of this distribution only within the terms of

\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* Original Author: unknown, got this off net.sources

\*

\* \$Log: getopt.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:40 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2014 Jarkko Hietaniemi & H.Merijn Brand

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_copysign:

?S: This variable conditionally defines the HAS\_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS\_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d\_copysign HAS\_COPYSIGN /\*\*/

?H:.

?LINT:set d\_copysign

: see if copysign exists

set copysign d\_copysign

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_copysign.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strnlen: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strnlen:

?S: This variable conditionally defines the HAS\_STRNLEN symbol, which

?S: indicates to the C program that the strnlen () routine is available.

?S:.

?C:HAS\_STRNLEN:

?C: This symbol, if defined, indicates that the strnlen () routine is

?C: available to check the length of a string up to a maximum.

?C:.

?H:#\$d\_strnlen HAS\_STRNLEN /\*\*/

?H:.

?LINT:set d\_strnlen

: see if strnlen exists

set strnlen d\_strnlen

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strnlen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2008 H.Merijn Brand

?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_timegm: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_timegm:  
 ?S: This variable conditionally defines the HAS\_TIMEGM symbol, which  
 ?S: indicates to the C program that the timegm () routine is available.  
 ?S:.  
 ?C:HAS\_TIMEGM:  
 ?C: This symbol, if defined, indicates that the timegm routine is  
 ?C: available to do the opposite of gmtime ()  
 ?C:.  
 ?H:#\$d\_timegm HAS\_TIMEGM /\*\*/  
 ?H:.  
 ?LINT:set d\_timegm  
 : see if timegm exists  
 set timegm d\_timegm  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_timegm.U  
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_fegetround: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fegetround:  
 ?S: This variable conditionally defines HAS\_FEGETROUND if fegetround() is  
 ?S: available to get the floating point rounding mode.  
 ?S:.  
 ?C:HAS\_FEGETROUND:  
 ?C: This symbol, if defined, indicates that the fegetround routine is  
 ?C: available to return the macro corresponding to the current rounding  
 ?C: mode.  
 ?C:.  
 ?H:#\$d\_fegetround HAS\_FEGETROUND /\*\*/  
 ?H:.  
 ?LINT:set d\_fegetround  
 : see if fegetround exists  
 set fegetround d\_fegetround  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fegetround.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fstatfs.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:
?S: This variable conditionally defines the HAS_LROUND symbol, which
?S: indicates to the C program that the lround() routine is available
?S: to return the integral value nearest to x.
?S:.
?C:HAS_LROUND:
?C: This symbol, if defined, indicates that the lround routine is
?C: available to return the nearest integral value.
?C:.
?H:#$d_lround HAS_LROUND /**/
?H:.
?LINT:set d_lround
: see if lround exists
```



```
set lround d_lround
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U
```

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_poll.U,v \$

?RCS:

?RCS: Copyright (c) 2001 Jarkko Hietaniemi

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_langinfo:

?S: This variable conditionally defines the I\_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I\_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i\_langinfo I\_LANGINFO /\*\*/

?H:.

?LINT:set i\_langinfo

: see if this is a langinfo.h system

set langinfo.h i\_langinfo

eval \$inhdr

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U
```

No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 2017-2018, H.Merijn Brand

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?RCS: as specified in the README file that comes with the distribution.

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?MAKE:d\_dup3: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_dup3:

?S: This variable conditionally defines HAS\_DUP3 if dup3() is

?S: available to duplicate file descriptors.

?S:.

?C:HAS\_DUP3:

?C: This symbol, if defined, indicates that the dup3 routine is

?C: available to duplicate file descriptors.

?C:.

?H:#\$d\_dup3 HAS\_DUP3 /\*\*/

?H:.

?LINT:set d\_dup3

: see if dup3 exists

set dup3 d\_dup3

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_dup3.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_atoll: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atoll:

?S: This variable conditionally defines the HAS\_ATOLL symbol, which

?S: indicates to the C program that the atoll() routine is available.

?S:.

?C:HAS\_ATOLL:

?C: This symbol, if defined, indicates that the atoll routine is

?C: available to convert strings into long longs.

?C:.

?H:#\$d\_atoll HAS\_ATOLL /\*\*/

?H:.

?LINT:set d\_atoll

: see if atoll exists

set atoll d\_atoll

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atoll.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_socks5\_init: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_socks5\_init:

?S: This variable conditionally defines the HAS\_SOCKS5\_INIT symbol, which

?S: indicates to the C program that the socks5\_init() routine is available.

?S:.

?C:HAS\_SOCKS5\_INIT:

?C: This symbol, if defined, indicates that the socks5\_init routine is

?C: available to initialize SOCKS 5.

?C:.

?H:#\$d\_socks5\_init HAS\_SOCKS5\_INIT /\*\*/

?H:.

?LINT:set d\_socks5\_init

: see if socks5\_init exists

set socks5\_init d\_socks5\_init

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_socks5\_init.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi

?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_isinfl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isinfl:

?S: This variable conditionally defines the HAS\_ISINFL symbol, which

?S: indicates to the C program that the isinfl() routine is available.

?S:.

?C:HAS\_ISINFL:

?C: This symbol, if defined, indicates that the isinfl routine is

?C: available to check whether a long double is an infinity.

?C:.

?H:#\$d\_isinfl HAS\_ISINFL /\*\*/

?H:.

?LINT:set d\_isinfl

: see if isinfl exists

set isinfl d\_isinfl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_isinfl.U

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Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_round:

?S: This variable conditionally defines the HAS\_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS\_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d\_round HAS\_ROUND /\*\*/

?H:.

?LINT:set d\_round

: see if round exists

set round d\_round

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_round.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma:

?S: This variable conditionally defines the HAS\_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d\_tgamma and d\_lgamma\_r.

?S:.

?C:HAS\_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS\_TGAMMA and

?C: HAS\_LGAMMA\_R.

?C:.

?H:#\$d\_lgamma HAS\_LGAMMA /\*\*/

?H:.

?LINT:set d\_lgamma

: see if lgamma exists

set lgamma d\_lgamma

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lgamma.U

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?RCS:

?MAKE:d\_sqrtl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_sqrtl:

?S: This variable conditionally defines the HAS\_SQRTL symbol, which

?S: indicates to the C program that the sqrtl() routine is available.

?S:.

?C:HAS\_SQRTL:

?C: This symbol, if defined, indicates that the sqrtl routine is

?C: available to do long double square roots.

?C:.

?H:#\$d\_sqrtl HAS\_SQRTL /\*\*/

?H:.

?LINT:set d\_sqrtl

: see if sqrtl exists

set sqrtl d\_sqrtl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_sqrtl.U

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?RCS:

?MAKE:d\_clearenv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_clearenv:

?S: This variable conditionally defines the HAS\_CLEARENV symbol, which

?S: indicates to the C program that the clearenv () routine is available.

?S:.

?C:HAS\_CLEARENV:

?C: This symbol, if defined, indicates that the clearenv () routine is

?C: available for use.

?C:.

?H:#\$d\_clearenv HAS\_CLEARENV /\*\*/

?H:.

?LINT:set d\_clearenv

: see if clearenv exists

set clearenv d\_clearenv

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_clearenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_ieeeFP.U,v \$

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?RCS:

?MAKE:i\_ieeeFP: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_ieeeFP:

?S: This variable conditionally defines the I\_IEEEFP symbol, and indicates

?S: whether a C program should include <ieeeFP.h>.

?S:.

?C:I\_IEEEFP:

?C: This symbol, if defined, indicates that <ieeeFP.h> exists and

?C: should be included.

?C:.

?H:#\$i\_ieeeFP I\_IEEEFP /\*\*/

?H:.

?LINT:set i\_ieeeFP

: see if this is a ieeeFP.h system

case "\$i\_ieeeFP" in

" ) set ieeeFP.h i\_ieeeFP

eval \$inhdr

;;

esac

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_ieeeFP.U

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?RCS:

?MAKE:d\_isnanl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isnanl:

?S: This variable conditionally defines the HAS\_ISNANL symbol, which

?S: indicates to the C program that the isnanl() routine is available.

?S:.

?C:HAS\_ISNANL:

?C: This symbol, if defined, indicates that the isnanl routine is

?C: available to check whether a long double is a NaN.

?C:.

?H:#\$d\_isnanl HAS\_ISNANL /\*\*/

?H:.

```
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnanl.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_libutil.U,v $
?RCS:
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?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
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```

```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_fpgetround: Inlibc
?MAKE: -pick add $@ %<
?S:d_fpgetround:
?S: This variable conditionally defines HAS_FPGETROUND if fpgetround()
?S: is available to get the floating point rounding mode.
?S:.
?C:HAS_FPGETROUND:
?C: This symbol, if defined, indicates that the fpgetround routine is
```



?C: available to get the floating point rounding mode.

?C:.

?H:#\$d\_fpgetround HAS\_FPGETROUND /\*\*/

?H:.

?LINT:set d\_fpgetround

: see if fpgetround exists

set fpgetround d\_fpgetround

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fpgetround.U

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?RCS:

?MAKE:d\_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrintl:

?S: This variable conditionally defines the HAS\_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrintl HAS\_LRINTL /\*\*/

?H:.

?LINT:set d\_lrintl

: see if lrintl exists

set lrintl d\_lrintl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lrintl.U

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?RCS:

?MAKE:d\_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbn:

?S: This variable conditionally defines the HAS\_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS\_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is

?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

?H:#\$d\_scalbn HAS\_SCALBN /\*\*/

?H:.

?LINT:set d\_scalbn

: see if scalbn exists

set scalbn d\_scalbn

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_scalbn.U

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?RCS:

?MAKE:d\_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fsync:

?S: This variable conditionally defines the HAS\_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS\_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d\_fsync HAS\_FSYNC /\*\*/

?H:.

?LINT:set d\_fsync

: see if fsync exists

set fsync d\_fsync

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fsync.U

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?RCS:

?MAKE:d\_inetntop: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetntop:

?S: This variable conditionally defines the HAS\_INETNTOP symbol,

?S: which indicates to the C program that the inet\_ntop() function

?S: is available.

?S:.

?C:HAS\_INETNTOP:

?C: This symbol, if defined, indicates that the inet\_ntop() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetntop HAS\_INETNTOP /\*\*/

?H:.

?LINT:set d\_inetntop

: see if inet\_ntop exists

set inet\_ntop d\_inetntop

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_inetntop.U

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?RCS:

?MAKE:d\_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fdclose:

?S: This variable conditionally defines the HAS\_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS\_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d\_fdclose HAS\_FDCLOSE /\*\*/

?H:.

?LINT:set d\_fdclose

: see if fdclose exists

set fdclose d\_fdclose

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fdclose.U

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?RCS: \$Id: i\_bfd.U,v \$

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?RCS:

?MAKE:i\_bfd: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_bfd:

?S: This variable conditionally defines the I\_BFD symbol, and

?S: indicates whether a C program can include <bfd.h>.

?S:.

?C:I\_BFD:

?C: This symbol, if defined, indicates that <bfd.h> exists and

?C: can be included.

?C:.

?H:#\$i\_bfd I\_BFD /\*\*/

?H:.

?LINT:set i\_bfd

: see if this is a bfd.h system

set bfd.h i\_bfd

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_bfd.U

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?RCS:

?MAKE:d\_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_tgamma:

?S: This variable conditionally defines the HAS\_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d\_lgamma.

?S:.

?C:HAS\_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS\_LGAMMA.

?C:.

?H:#\$d\_tgamma HAS\_TGAMMA /\*\*/

?H:.

?LINT:set d\_tgamma  
: see if tgamma exists  
set tgamma d\_tgamma  
eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_tgamma.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_shadow.U,v \$

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?RCS:

?MAKE:i\_shadow: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_shadow:

?S: This variable conditionally defines the I\_SHADOW symbol, and indicates

?S: whether a C program should include <shadow.h>.

?S:.

?C:I\_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i\_shadow I\_SHADOW /\*\*/

?H:.

?LINT:set i\_shadow

: see if this is a shadow.h system

set shadow.h i\_shadow

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_shadow.U

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?RCS:

?MAKE:d\_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetpton:

?S: This variable conditionally defines the HAS\_INETPTON symbol,

?S: which indicates to the C program that the inet\_pton() function

?S: is available.

?S:.

?C:HAS\_INETPTON:

?C: This symbol, if defined, indicates that the inet\_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetpton HAS\_INETPTON /\*\*/

?H:.

?LINT:set d\_inetpton

: see if inet\_pton exists

set inet\_pton d\_inetpton

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_inetpton.U

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?RCS:

?MAKE:d\_lgamma\_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma\_r:

?S: This variable conditionally defines the HAS\_LGAMMA\_R symbol, which

?S: indicates to the C program that the lgamma\_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS\_LGAMMA\_R:

?C: This symbol, if defined, indicates that the lgamma\_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d\_lgamma\_r HAS\_LGAMMA\_R /\*\*/

?H:.

?LINT:set d\_lgamma\_r

: see if lgamma\_r exists

set lgamma\_r d\_lgamma\_r

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lgamma\_r.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_readv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_readv:

?S: This variable conditionally defines the HAS\_READV symbol, which

?S: indicates to the C program that the readv() routine is available.

?S:.

?C:HAS\_READV:

?C: This symbol, if defined, indicates that the readv routine is

?C: available to do gather reads. You will also need <sys/uio.h>

?C: and there I\_SYSUIO.

?C:.

?H:#\$d\_readv HAS\_READV /\*\*/

?H:.

?LINT:set d\_readv

: see if readv exists

set readv d\_readv

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_readv.U

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?RCS: \$Id: i\_poll.U,v \$

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?RCS:

?MAKE:i\_poll: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_poll:

?S: This variable conditionally defines the I\_POLL symbol, and indicates

?S: whether a C program should include <poll.h>.

?S:.

?C:I\_POLL:

?C: This symbol, if defined, indicates that <poll.h> exists and

?C: should be included. (see also HAS\_POLL)

?C:.

?H:#\$i\_poll I\_POLL /\*\*/

?H:.

?LINT:set i\_poll

: see if this is a poll.h system

set poll.h i\_poll

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_poll.U

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?RCS:

?MAKE:d\_qgcvt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_qgcvt:

?S: This variable conditionally defines the HAS\_QGCVT symbol, which

?S: indicates to the C program that the qgcvt() routine is available.

?S:.

?C:HAS\_QGCVT:

?C: This symbol, if defined, indicates that the qgcvt routine is

?C: available to convert long doubles ("quad doubles") to strings.

?C: This is a low-level routine hopefully faster than sprintf.

?C:.

?H:#\$d\_qgcvt HAS\_QGCVT /\*\*/

?H:.

?LINT:set d\_qgcvt

: see if qgcvt exists

set qgcvt d\_qgcvt

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_qgcvt.U

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?RCS:

?MAKE:d\_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strftime:

?S: This variable conditionally defines the HAS\_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS\_STRFTIME:



?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d\_strftime HAS\_STRFTIME /\*\*/

?H:.

?LINT:set d\_strftime

: see if strftime exists

set strftime d\_strftime

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strftime.U

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?RCS:

?MAKE:d\_socketmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_socketmark:

?S: This variable conditionally defines the HAS\_SOCKETMARK symbol, which

?S: indicates to the C program that the socketmark() routine is available.

?S:.

?C:HAS\_SOCKETMARK:

?C: This symbol, if defined, indicates that the socketmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d\_socketmark HAS\_SOCKETMARK /\*\*/

?H:.

?LINT:set d\_socketmark

: see if socketmark exists

set socketmark d\_socketmark

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_socketmark.U

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```
?RCS:
?MAKE:d_strtod_1: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtod_1:
?S: This variable conditionally defines the HAS_STRTOD_L symbol, which
?S: indicates to the C program that the strtod_l() routine is available.
?S:.
?C:HAS_STRTOD_L:
?C: This symbol, if defined, indicates that the strtod_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtod_1 HAS_STRTOD_L /**/
?H:.
?LINT:set d_strtod_1
: see if strtod_l exists
set strtod_l d_strtod_1
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strtod_1.U
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```

```
?RCS: $Id$
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?RCS:
?MAKE:d_setproctitle: Inlibc
?MAKE: -pick add $@ %<
?S:d_setproctitle:
?S: This variable conditionally defines the HAS_SETPROCTITLE symbol,
?S: which indicates to the C program that the setproctitle() routine
?S: is available.
?S:.
?C:HAS_SETPROCTITLE:
?C: This symbol, if defined, indicates that the setproctitle routine is
?C: available to set process title.
?C:.
?H:#$d_setproctitle HAS_SETPROCTITLE /**/
?H:.
?LINT:set d_setproctitle
: see if setproctitle exists
set setproctitle d_setproctitle
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_setproctitle.U

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?RCS:

?MAKE:d\_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_sendmsg:

?S: This variable conditionally defines the HAS\_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS\_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d\_sendmsg HAS\_SENDMSG /\*\*/

?H:.

?LINT:set d\_sendmsg

: see if sendmsg exists

set sendmsg d\_sendmsg

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_sendmsg.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_strtold: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtold:

?S: This variable conditionally defines the HAS\_STRTOLD symbol, which

?S: indicates to the C program that the strtold() routine is available.

?S:.

?C:HAS\_STRTOLD:

?C: This symbol, if defined, indicates that the strtold routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtold HAS\_STRTOLD /\*\*/

?H:.

?LINT:set d\_strtold

: see if strtold exists

set strtold d\_strtold

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strtold.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysutsname.U,v \$

?RCS:

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?RCS:

?MAKE:i\_sysutsname: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysutsname:

?S: This variable conditionally defines the I\_SYSUTSNAME symbol,

?S: and indicates whether a C program should include <sys/utsname.h>.

?S:.

?C:I\_SYSUTSNAME:

?C: This symbol, if defined, indicates that <sys/utsname.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysutsname I\_SYSUTSNAME /\*\*/

?H:.

?LINT:set i\_sysutsname

: see if this is a sys/utsname.h system

set sys/utsname.h i\_sysutsname

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_sysutsname.U

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?RCS:

?MAKE:d\_rint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_rint:

?S: This variable conditionally defines the HAS\_RINT symbol, which

?S: indicates to the C program that the rint() routine is available.

?S:.

?C:HAS\_RINT:

?C: This symbol, if defined, indicates that the rint routine is

?C: available to return the nearest integral value to x as double

?C: using the current rounding mode.

?C:.

?H:#\$d\_rint HAS\_RINT /\*\*/

?H:.

?LINT:set d\_rint

: see if rint exists

set rint d\_rint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_rint.U

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?RCS:

?MAKE:d\_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log1p:

?S: This variable conditionally defines the HAS\_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute  $\log(1 + x)$  for values of x close to zero.

?S:.

?C:HAS\_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d\_log1p HAS\_LOG1P /\*\*/

?H:.

?LINT:set d\_log1p

: see if log1p exists

set log1p d\_log1p

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_log1p.U

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?RCS:

?MAKE:i\_fenv: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_fenv:

?S: This variable conditionally defines the I\_FENV symbol, which

?S: indicates to the C program that <fenv.h> exists and should  
 ?S: be included.  
 ?S:.  
 ?C:I\_FENV:  
 ?C: This symbol, if defined, indicates to the C program that it should  
 ?C: include <fenv.h> to get the floating point environment definitions.  
 ?C:.  
 ?H:#\$i\_fenv I\_FENV /\*\*/  
 ?H:.  
 ?LINT:set i\_fenv  
 : see if this is a fenv.h system  
 set fenv.h i\_fenv  
 eval \$inhdr

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_fenv.U  
 No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public  
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 ?RCS:  
 ?MAKE:d\_truncl: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_truncl:  
 ?S: This variable conditionally defines the HAS\_TRUNCL symbol, which  
 ?S: indicates to the C program that the truncl() routine is available  
 ?S: to round long doubles towards zero. If copysignl is also present,  
 ?S: we can emulate modfl.  
 ?S:.  
 ?C:HAS\_TRUNCL :  
 ?C: This symbol, if defined, indicates that the truncl routine is  
 ?C: available. If copysignl is also present we can emulate modfl.  
 ?C:.  
 ?H:#\$d\_truncl HAS\_TRUNCL /\*\*/  
 ?H:.  
 ?LINT:set d\_truncl  
 : see if truncl exists  
 set truncl d\_truncl  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_truncl.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_shadow.U,v \$  
 ?RCS:  
 ?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
 ?RCS:

?RCS: You may distribute under the terms of either the GNU General Public

?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_prot: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_prot:

?S: This variable conditionally defines the I\_PROT symbol, and indicates

?S: whether a C program should include <prot.h>.

?S:.

?C:I\_PROT:

?C: This symbol, if defined, indicates that <prot.h> exists and

?C: should be included.

?C:.

?H:#\$i\_prot I\_PROT /\*\*/

?H:.

?LINT:set i\_prot

: see if this is a prot.h system

set prot.h i\_prot

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_prot.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

\*

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\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* \$Log: scandir.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:45 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C

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?RCS: \$Id\$

?RCS:

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 ?RCS:  
 ?MAKE:d\_strtold\_l: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_strtold\_l:  
 ?S: This variable conditionally defines the HAS\_STRTOLD\_L symbol, which  
 ?S: indicates to the C program that the strtold\_l() routine is available.  
 ?S:.  
 ?C:HAS\_STRTOLD\_L:  
 ?C: This symbol, if defined, indicates that the strtold\_l routine is  
 ?C: available to convert strings to long doubles.  
 ?C:.  
 ?H:#\$d\_strtold\_l HAS\_STRTOLD\_L /\*\*/  
 ?H:.  
 ?LINT:set d\_strtold\_l  
 : see if strtold\_l exists  
 set strtold\_l d\_strtold\_l  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d\_strtold\_l.U

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 ?RCS:

?MAKE:i\_stdint: Inhdr  
 ?MAKE: -pick add \$@ %<  
 ?S:i\_stdint:  
 ?S: This variable conditionally defines the I\_STDINT symbol, which  
 ?S: indicates to the C program that <stdint.h> exists and should  
 ?S: be included.  
 ?S:.  
 ?C:I\_STDINT:  
 ?C: This symbol, if defined, indicates that <stdint.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_stdint I\_STDINT /\*\*/  
 ?H:.  
 ?LINT:set i\_stdint  
 : see if stdint is available  
 set stdint.h i\_stdint  
 eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_stdint.U



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```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_fchdir: Inlibc
?MAKE: -pick add $@ %<
?S:d_fchdir:
?S: This variable conditionally defines the HAS_FCHDIR symbol, which
?S: indicates to the C program that the fchdir() routine is available.
?S:.
?C:HAS_FCHDIR:
?C: This symbol, if defined, indicates that the fchdir routine is
?C: available to change directory using a file descriptor.
?C:.
?H:#$d_fchdir HAS_FCHDIR /**/
?H:.
?LINT:set d_fchdir
: see if fchdir exists
set fchdir d_fchdir
eval $inlibc
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fchdir.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1 /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
```

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_expm1.U

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?RCS:

?MAKE:d\_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nearbyint:

?S: This variable conditionally defines HAS\_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS\_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d\_nearbyint HAS\_NEARBYINT /\*\*/

?H:.

?LINT:set d\_nearbyint

: see if nearbyint exists

set nearbyint d\_nearbyint

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nearbyint.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram \$

\*

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\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* Original Author: Larry Wall <lwall@netlabs.com>

\*

\* \$Log: dup2.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:37 ram

\* patch16: created

\*  
\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_eaccess: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_eaccess:

?S: This variable conditionally defines the HAS\_EACCESS symbol, which

?S: indicates to the C program that the eaccess() routine is available.

?S:.

?C:HAS\_EACCESS :

?C: This symbol, if defined, indicates that the eaccess routine is

?C: available to do extended access checks.

?C:.

?H:#\$d\_eaccess HAS\_EACCESS /\*\*/

?H:.

?LINT:set d\_eaccess

: see if eaccess exists

set eaccess d\_eaccess

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d\_eaccess.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_syslog.U,v \$

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?RCS:

?MAKE:i\_syslog: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_syslog:

?S: This variable conditionally defines the I\_SYSLOG symbol,

?S: and indicates whether a C program should include <syslog.h>.

?S:.

?C:I\_SYSLOG:

?C: This symbol, if defined, indicates that <syslog.h> exists and

?C: should be included.

?C:.

?H:#\$i\_syslog I\_SYSLOG /\*\*/

?H:.

?LINT:set i\_syslog

: see if this is a syslog.h system

set syslog.h i\_syslog

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_syslog.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_getcwd: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getcwd:

?S: This variable conditionally defines the HAS\_GETCWD symbol, which

?S: indicates to the C program that the getcwd() routine is available

?S: to get the current working directory.

?S:.

?C:HAS\_GETCWD :

?C: This symbol, if defined, indicates that the getcwd routine is

?C: available to get the current working directory.

?C:.

?H:#\$d\_getcwd HAS\_GETCWD /\*\*/

?H:.

?LINT:set d\_getcwd

: see if getcwd exists

set getcwd d\_getcwd

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getcwd.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_getnameinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getnameinfo:

?S: This variable conditionally defines the HAS\_GETNAMEINFO symbol,

?S: which indicates to the C program that the getnameinfo() function

?S: is available.

?S:.

?C:HAS\_GETNAMEINFO:

?C: This symbol, if defined, indicates that the getnameinfo() function

?C: is available for use.

?C:.

?H:#\$d\_getnameinfo HAS\_GETNAMEINFO /\*\*/

?H:.

?LINT:set d\_getnameinfo

: see if getnameinfo exists

set getnameinfo d\_getnameinfo

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getnameinfo.U

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?RCS:

?MAKE:i\_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_quadmath:

?S: This variable conditionally defines I\_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I\_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_quadmath I\_QUADMATH /\*\*/

?H:.

?LINT:set i\_quadmath

: see if this is a quadmath.h system

set quadmath.h i\_quadmath

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_quadmath.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_netdb.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_netdb: Inhdr
?MAKE: -pick add $@ %<
?S:i_netdb:
?S: This variable conditionally defines the I_NETDB symbol, and indicates
?S: whether a C program should include <netdb.h>.
?S:.
?C:I_NETDB:
?C: This symbol, if defined, indicates that <netdb.h> exists and
?C: should be included.
?C:.
?H:#$i_netdb I_NETDB /**/
?H:.
?LINT:set i_netdb
: see if this is a netdb.h system
set netdb.h i_netdb
eval $inhdr
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i\_netdb.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS /**/
```

?H:.

?LINT:set i\_fp\_class

: see if this is a fp\_class.h system

set fp\_class.h i\_fp\_class

eval \$inhdr

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i\_fp\_class.U

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?RCS:

?MAKE:d\_llround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_llround:

?S: This variable conditionally defines the HAS\_LLROUND symbol, which

?S: indicates to the C program that the llround() routine is available

?S: to return the long long value nearest to x.

?S:.

?C:HAS\_LLROUND:

?C: This symbol, if defined, indicates that the llround routine is

?C: available to return the nearest long long value.

?C:.

?H:#\$d\_llround HAS\_LLROUND /\*\*/

?H:.

?LINT:set d\_llround

: see if llround exists

set llround d\_llround

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_llround.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_writev:

?S: This variable conditionally defines the HAS\_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS\_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d\_writev HAS\_WRITEV /\*\*/

?H:.

?LINT:set d\_writev

: see if writev exists

set writev d\_writev

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_writev.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_mkdtmp: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_mkdtmp:

?S: This variable conditionally defines the HAS\_MKDTEMP symbol, which

?S: indicates to the C program that the mkdtmp() routine is available

?S: to exclusively create a uniquely named temporary directory.

?S:.

?C:HAS\_MKDTEMP :

?C: This symbol, if defined, indicates that the mkdtmp routine is

?C: available to exclusively create a uniquely named temporary directory.

?C:.

?H:#\$d\_mkdtmp HAS\_MKDTEMP /\*\*/

?H:.

?LINT:set d\_mkdtmp

: see if mkdtmp exists

set mkdtmp d\_mkdtmp

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_mkdtmp.U

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?RCS:

?MAKE:d\_fdim: Inlibc



?MAKE: -pick add \$@ %<

?S:d\_fdim:

?S: This variable conditionally defines the HAS\_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS\_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d\_fdim HAS\_FDIM /\*\*/

?H:.

?LINT:set d\_fdim

: see if fdim exists

set fdim d\_fdim

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fdim.U

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?RCS:

?MAKE:d\_aintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_aintl:

?S: This variable conditionally defines the HAS\_AINTL symbol, which

?S: indicates to the C program that the aintl() routine is available.

?S: If copysignl is also present we can emulate modfl.

?S:.

?C:HAS\_AINTL:

?C: This symbol, if defined, indicates that the aintl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d\_aintl HAS\_AINTL /\*\*/

?H:.

?LINT:set d\_aintl

: see if aintl exists

set aintl d\_aintl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_aintl.U

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?RCS:

?MAKE:d\_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_asinh:

?S: This variable conditionally defines the HAS\_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS\_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d\_asinh HAS\_ASINH /\*\*/

?H:.

?LINT:set d\_asinh

: see if asinh exists

set asinh d\_asinh

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_asinh.U

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?RCS:

?MAKE:d\_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_recvmsg:

?S: This variable conditionally defines the HAS\_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS\_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d\_recvmsg HAS\_RECVMSG /\*\*/

?H:.

?LINT:set d\_recvmsg

: see if recvmsg exists

set recvmsg d\_recvmsg

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_recvmsg.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

\*

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\* of the source tree for dist 4.0.

\*

\* \$Log: setsid.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:47 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C

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?RCS:

?MAKE:d\_fseeko: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d\_fseeko:

?S: This variable conditionally defines the HAS\_FSEEKO symbol, which

?S: indicates to the C program that the fseeko() routine is available.

?S:.

?C:HAS\_FSEEKO:

?C: This symbol, if defined, indicates that the fseeko routine is

?C: available to fseek beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d\_fseeko HAS\_FSEEKO /\*\*/

?H:.

?LINT:set d\_fseeko

: see if fseeko exists

```
set fseeko d_fseeko
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use fseek.)" ;;
esac
```

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_fseeko.U

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?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

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?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this file is to supply an empty target for the private

?X: Makefile built by metaconfig to order the units.

?X:

?MAKE:Nothing: Head

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U

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?RCS:

?MAKE:d\_lroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lroundl:

?S: This variable conditionally defines the HAS\_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS\_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_lroundl HAS\_LROUNDL /\*\*/

?H:.

?LINT:set d\_lroundl

: see if lroundl exists

set lroundl d\_lroundl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-origin-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_lroundl.U

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?RCS:

?MAKE:d\_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_erfc:

?S: This variable conditionally defines the HAS\_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS\_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d\_erfc HAS\_ERFC /\*\*/

?H:.

?LINT:set d\_erfc

: see if erfc exists

set erfc d\_erfc

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-origin-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_erfc.U

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?RCS:

?MAKE:d\_strtoq: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtoq:

?S: This variable conditionally defines the HAS\_STRTOQ symbol, which

?S: indicates to the C program that the strtouq() routine is available.

?S:.

?C:HAS\_STRTOQ:

?C: This symbol, if defined, indicates that the strtou routine is

?C: available to convert strings to long longs (quads).

?C:.

?H:#\$d\_strtoq HAS\_STRTOQ /\*\*/

?H:.

?LINT:set d\_strtoq

: see if strtou exists

set strtou d\_strtoq

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_strtoq.U

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?RCS:

?MAKE:d\_getitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getitimer:

?S: This variable conditionally defines the HAS\_GETITIMER symbol, which

?S: indicates to the C program that the getitimer() routine is available.

?S:.

?C:HAS\_GETITIMER:

?C: This symbol, if defined, indicates that the getitimer routine is

?C: available to return interval timers.

?C:.

?H:#\$d\_getitimer HAS\_GETITIMER /\*\*/

?H:.

?LINT:set d\_getitimer

: see if getitimer exists

set getitimer d\_getitimer

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_getitimer.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

\*

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```

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* of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/

```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C
```

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?RCS:

?MAKE:d\_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log2:

?S: This variable conditionally defines the HAS\_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS\_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d\_log2 HAS\_LOG2 /\*\*/

?H:.

?LINT:set d\_log2

: see if log2 exists

set log2 d\_log2

eval \$inlibc

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
```

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?RCS:

?MAKE:d\_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_trunc:

?S: This variable conditionally defines the HAS\_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS\_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d\_trunc HAS\_TRUNC /\*\*/

?H:.

?LINT:set d\_trunc

: see if trunc exists

set trunc d\_trunc

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_trunc.U

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?RCS:

?MAKE:d\_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nexttoward:

?S: This variable conditionally defines HAS\_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS\_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d\_nexttoward HAS\_NEXTTOWARD /\*\*/

?H:.

?LINT:set d\_nexttoward

: see if nexttoward exists

set nexttoward d\_nexttoward

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_nexttoward.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2000 Jarkko Hietaniemi



?RCS:  
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 ?RCS:  
 ?MAKE:d\_ualarm: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_ualarm:  
 ?S: This variable conditionally defines the HAS\_UALARM symbol, which  
 ?S: indicates to the C program that the ualarm() routine is available.  
 ?S:.  
 ?C:HAS\_UALARM:  
 ?C: This symbol, if defined, indicates that the ualarm routine is  
 ?C: available to do alarms with microsecond granularity.  
 ?C:.  
 ?H:#\$d\_ualarm HAS\_UALARM /\*\*/  
 ?H:.  
 ?LINT:set d\_ualarm  
 : see if ualarm exists  
 set ualarm d\_ualarm  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_ualarm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
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 ?RCS:  
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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_towupper: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_towupper:  
 ?S: This variable conditionally defines the HAS\_TOWUPPER symbol, which  
 ?S: indicates to the C program that the towupper() routine is available.  
 ?S:.  
 ?C:HAS\_TOWUPPER:  
 ?C: This symbol, if defined, indicates that the towupper () routine is  
 ?C: available to do case conversion.  
 ?C:.  
 ?H:#\$d\_towupper HAS\_TOWUPPER /\*\*/  
 ?H:.  
 ?LINT:set d\_towupper  
 : see if towupper exists  
 set towupper d\_towupper  
 eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_towupper.U

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?RCS:

?MAKE:d\_remquo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_remquo:

?S: This variable conditionally defines the HAS\_REMQUO symbol, which

?S: indicates to the C program that the remquo() routine is available.

?S:.

?C:HAS\_REMQUO:

?C: This symbol, if defined, indicates that the remquo routine is

?C: available to return the remainder and part of quotient.

?C:.

?H:#\$d\_remquo HAS\_REMQUO /\*\*/

?H:.

?LINT:set d\_remquo

: see if remquo exists

set remquo d\_remquo

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_remquo.U

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?RCS:

?MAKE:d\_copysignl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_copysignl:

?S: This variable conditionally defines the HAS\_COPYSIGNL symbol, which

?S: indicates to the C program that the copysignl() routine is available.

?S: If aintl is also present we can emulate modfl.

?S:.

?C:HAS\_COPYSIGNL:

?C: This symbol, if defined, indicates that the copysignl routine is

?C: available. If aintl is also present we can emulate modfl.

?C:.

?H:#\$d\_copysignl HAS\_COPYSIGNL /\*\*/

?H:.

?LINT:set d\_copysignl

: see if copysignl exists

set copysignl d\_copysignl

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_copysignl.U

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?RCS:

?MAKE:d\_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_erf:

?S: This variable conditionally defines the HAS\_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS\_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d\_erf HAS\_ERF /\*\*/

?H:.

?LINT:set d\_erf

: see if erf exists

set erf d\_erf

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_erf.U

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?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U

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?RCS:

?MAKE:d\_finite: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_finite:

?S: This variable conditionally defines the HAS\_FINITE symbol, which

?S: indicates to the C program that the finite() routine is available.

?S:.

?C:HAS\_FINITE:

?C: This symbol, if defined, indicates that the finite routine is

?C: available to check whether a double is finite (non-infinity non-NaN).

?C:.

?H:#\$d\_finite HAS\_FINITE /\*\*/

?H:.

?LINT:set d\_finite

: see if finite exists

set finite d\_finite

eval \$inlibc

Found in path(s):

\* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d\_finite.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_setitimer: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_setitimer:

?S: This variable conditionally defines the HAS\_SETITIMER symbol, which

?S: indicates to the C program that the setitimer() routine is available.

?S:.

?C:HAS\_SETITIMER:

?C: This symbol, if defined, indicates that the setitimer routine is

?C: available to set interval timers.

```
?C:.
?H:#$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setitimer.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
```

```
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
```

```
?RCS:
```

```
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```

```
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
```

```
?MAKE:full_ar: ar
```

```
?MAKE: -pick add $@ %<
```

```
?S:full_ar:
```

```
?S: This variable contains the full pathname to 'ar', whether or
```

```
?S: not the user has specified 'portability'. This is only used
```

```
?S: in the Makefile.SH.
```

```
?S:.
```

```
: Store the full pathname to the ar program for use in the C program
```

```
: Respect a hint or command line value for full_ar.
```

```
case "$full_ar" in
```

```
) full_ar=$ar ;;
```

```
esac
```

Found in path(s):

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U
```

# 1.157 go-humanize 1.0.1

## 1.157.1 Available under license :

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## 1.158 httpsnoop 1.0.4

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Any

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```

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```
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```

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```
<!-- Creator   : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
<!-- site wide top running header menu -->

<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
</li>
```

```

    <a href="development.html" title="Development">Development</a>
</li>
<li>
    <a href="community.html" title="Community">Community</a>
</li>
</ul>

<div id="header">
    <h1>
        <span style="display:inline-block; vertical-align:middle">

        </span>
        <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
        </span>
    </h1>

    <!-- homepage tab menu -->

    <div id="tabmenu">
        <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
        </ul>
    </div>
</div>

<div id="page">
<div class="plain">
    <h2>The home of the GNU Modula-2 compiler</h2>
    <p>The compiler is held under the GNU Public Licence v3.</p>
    <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions. Copies of the
        licences can be found on the
        <a href="http://www.gnu.org/licenses">GNU</a>
web site.</p>
</div>
</div>
</body>
</html>

```

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b) Use a suitable shared library mechanism for linking with the  
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the user  
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# 1.170 libsystemd 249.11-0ubuntu3.12

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Paul Borman <borman@google.com>

bmatsuo

shawnp

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## 1.178 zlib1g 1.2.11.dfsg-2ubuntu9.2

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 * Version 1.7 12 August 2012 Mark Adler */
```

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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/* gzwrite.c -- zlib functions for writing gzip files
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```
/* inffast.h -- header to use inffast.c
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/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

No license file was found, but licenses were detected in source scan.

/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.

Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later  
(the contents of which are also included in zip.h) for terms of use.  
If, for some reason, all these files are missing, the Info-ZIP license  
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the  
non-echoing password parts) were originally written in Europe. The  
whole source package can be freely distributed, including from the USA.  
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from  
Roger Schlafly, described by Phil Katz in the file appnote.txt. This  
file (appnote.txt) is distributed with the PKZIP program (even in the  
version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is  
now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

No license file was found, but licenses were detected in source scan.

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

No license file was found, but licenses were detected in source scan.

/\* inffback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffback.c

No license file was found, but licenses were detected in source scan.

/\* gzlog.h

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version 2.2, 14 Aug 2012

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distribution.

Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

No license file was found, but licenses were detected in source scan.

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications for Zip64 support

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----

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-----

Changes

See header of zip.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

No license file was found, but licenses were detected in source scan.

/\*

\* gzlog.c

\* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved

\* For conditions of distribution and use, see copyright notice in gzlog.h

\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

No license file was found, but licenses were detected in source scan.

/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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Mark Adler [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of `Makefile.in`. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.



The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/> .

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/> .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html> .

zlib is built into tcl: <http://wiki.tcl.tk/4610> .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

No license file was found, but licenses were detected in source scan.

/\* fitblk.c: example of fitting compressed output to a specified size

Not copyrighted -- provided to the public domain

Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

No license file was found, but licenses were detected in source scan.

/\* gzread.c -- zlib functions for reading gzip files

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

No license file was found, but licenses were detected in source scan.

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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Jean-loup Gailly

Mark Adler

jloop@gzip.org

madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

No license file was found, but licenses were detected in source scan.

/\* inftrees.h -- header to use inftrees.c

\* Copyright (C) 1995-2005, 2010 Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h

No license file was found, but licenses were detected in source scan.

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

No license file was found, but licenses were detected in source scan.

/\* gzlib.c -- zlib functions common to reading and writing gzip files

\* Copyright (C) 2004-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

No license file was found, but licenses were detected in source scan.

/\* infcover.c -- test zlib's inflate routines with full code coverage

\* Copyright (C) 2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.c

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/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

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# For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

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/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

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/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

## Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

## Background

-----

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c  
some refactoring and code cleanup was also done.

## Changed from MiniZip 1.0 to MiniZip 1.1

-----

\* Added ZIP64 support for unzip ( by Even Rouault )

\* Added ZIP64 support for zip ( by Mathias Svensson )

\* Reverted some changed that Even Rouault did.

\* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.

\* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)

\* Added BZIP Compress method for zip

\* Did some refactoring and code cleanup

## Credits

Gilles Vollant - Original MiniZip author

Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

## Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

## Notes.

\* To be able to use BZip compression method in  
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt  
No license file was found, but licenses were detected in source scan.

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler  
\* For conditions of distribution and use, see copyright notice in zlib.h  
\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

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---

## Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

No license file was found, but licenses were detected in source scan.

```
/* Adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

No license file was found, but licenses were detected in source scan.

```
/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

```
/* zpipe.c: example of proper use of zlib's inflate() and deflate()
Not copyrighted -- provided to the public domain
Version 1.4 11 December 2005 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

No license file was found, but licenses were detected in source scan.

```
/* gzappend -- command to append to a gzip file
```

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version 1.2, 11 Oct 2012

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Mark Adler [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

#### Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

#### 1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

#### 2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/>.

#### 3. Where can I get a Visual Basic interface to zlib?

See

\* <http://marknelson.us/1997/01/01/zlib-engine/>

\* win32/DLL\_FAQ.txt in the zlib distribution

#### 4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h`.

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/>. To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/>.

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of `zlib`, it is generated by the C compiler (`cc` or `gcc`). You must recompile applications using `zlib` which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of `zlib` and applications using `zlib`.

18. Why does `gzip` give an error on a file I make with `compress/deflate`?

The `compress` and `deflate` functions produce data in the `zlib` format, which is different and incompatible with the `gzip` format. The `gz*` functions in `zlib` on the other hand use the `gzip` format. Both the `zlib` and `gzip` formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The `gzip` format was designed to retain the directory information about a single file, such as the name and last modification date. The `zlib` format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than `gzip`.

20. Well that's nice, but how do I make a `gzip` file in memory?

You can request that `deflate` write the `gzip` format instead of the `zlib` format using `deflateInit2()`. You can also request that `inflate` decode the `gzip` format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is `zlib` thread-safe?

Yes. However any library routines that `zlib` uses and any application-provided memory allocation routines must also be thread-safe. `zlib`'s `gz*` functions use `stdio` library routines, and most of `zlib`'s functions use the library memory allocation routines by default. `zlib`'s `*Init*` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given `zlib` or `gzip` stream from a single thread at a time.

22. Can I use `zlib` in my commercial application?

Yes. Please read the license in `zlib.h`.

23. Is `zlib` under the GNU license?

No. Please read the license in `zlib.h`.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers `x.x.x.f` are reserved for modifications to `zlib` by others than the `zlib` maintainers. For example, if the version of the base `zlib` you are altering is "1.2.3.4", then in `zlib.h` you should change `ZLIB_VERNUM` to `0x123f`, and `ZLIB_VERSION` to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in `deflate.c` and `inftrees.c`.

For altered source distributions, you should also note the origin and nature of the changes in `zlib.h`, as well as in `ChangeLog` and `README`, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled `zlib` library along with `zlib.h` and `zconf.h` is also a source distribution, and so you should change `ZLIB_VERSION` and `ZLIB_VERNUM` and note the origin and nature of the changes in `zlib.h` as you would for a full source distribution.

- 25.

Will `zlib` work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will `zlib` work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will `zlib` decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and `zlib`. However, you can look in `zlib's contrib/blast` directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those

points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's `contrib/puff` directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly. Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm.total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?



The only one that we are aware of is potentially in `gzprintf()`. If `zlib` is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if `zlib` is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of `zlib`. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

#### 34. Is there a Java version of `zlib`?

Probably what you want is to use `zlib` in Java. `zlib` is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of `zlib` written in the Java language, look on the `zlib` home page for links: <http://zlib.net/>.

#### 35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

#### 36. Valgrind (or some similar memory access checker) says that `deflate` is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of `deflate` is not affected. This only started showing up recently since `zlib` 1.2.x uses `malloc()` by default for allocations, whereas earlier versions used `calloc()`, which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General

Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1.2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

# 1.179 dpkg 1.21.1ubuntu2.3

## 1.179.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: dpkg

Files: \*

Copyright:

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Copyright 1994 Matt Welsh <mdw@sunsite.unc.edu>

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Files:

lib/compat/getopt\*  
lib/compat/gettext.h  
lib/compat/obstack.\*  
lib/compat/strnlen.c

Copyright:

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License: GPL-2+

Files:

dselect/methods/Dselect/Ftp.pm  
dselect/methods/ftp/\*

Copyright:

Copyright 1996 Andy Guy <awpguy@acs.ualgary.ca>  
Copyright 1998 Martin Schulze <joe@infodrom.org>  
Copyright 1999-2001, 2005-2006, 2009 Raphal Hertzog <hertzog@debian.org>

License: GPL-2

Files:

scripts/Dpkg/Gettext.pm

Copyright:

Copyright 2000 Joey Hess <joeyh@debian.org>

Copyright 2007, 2009-2010, 2012-2015 Guillem Jover <guillem@debian.org>

License: BSD-2-clause

Files:

utils/start-stop-daemon.c

Copyright:

Copyright 1999 Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>

Copyright 1999 Christian Schwarz <schwarz@monet.m.isar.de>

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License: public-domain-s-s-d

Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,

public domain. Based conceptually on start-stop-daemon.pl, by Ian

Jackson <ijackson@gnu.ai.mit.edu>. May be used and distributed

freely for any purpose. Changes by Christian Schwarz

<schwarz@monet.m.isar.de>, to make output conform to the Debian

Console Message Standard, also placed in public domain. Minor

changes by Klee Dienes <klee@debian.org>, also placed in the Public

Domain.

.

Changes by Ben Collins <bcollins@debian.org>, added --chuid, --background

and --make-pidfile options, placed in public domain as well.

Files: lib/compat/md5.\*

Copyright:

Copyright 1993 Colin Plumb

License: public-domain-md5

This code implements the MD5 message-digest algorithm.

The algorithm is due to Ron Rivest. This code was

written by Colin Plumb in 1993, no copyright is claimed.

This code is in the public domain; do with it what you wish.

.

Equivalent code is available from RSA Data Security, Inc.

This code has been tested against that, and is equivalent,  
except that you don't need to include two pages of legalese  
with every copy.

License: GPL-2+

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# 1.186 ini 1.67.0

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# 1.188 go-openapi 0.28.0

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## 1.189 githubcomgoopenapispec 0.21.0



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```

package spec

```
import (
    "encoding/json"
```

```
    "github.com/go-openapi/swag"
)
```

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}
```

```
// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
```

```
// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}
```

```
// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
```

```

b1, err := json.Marshal(l.LicenseProps)
if err != nil {
    return nil, err
}
b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
    return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}

```

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import (

"encoding/json"

"testing"

```

"github.com/stretchr/testify/assert"
"github.com/stretchr/testify/require"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom
term"
}`

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url\n"

    b, err := json.MarshalIndent(license, "", "\t")
    require.NoError(t, err)
    assert.Equal(t, licenseJSON, string(b))

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    require.NoError(t, err)
    assert.EqualValues(t, license, actual)
}

```

# 1.190 githubcomgoopenapistrfmt 0.23.0

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## 1.197.1 Available under license :

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01  
 2 7680 16383 8704 4.3M 8f8378c0-02  
 5 7936 12799 4864 2.4M  
 6 12544 16127 3584 1.8M

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## 1.198.1 Available under license :

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01  
2 7680 16383 8704 4.3M 8f8378c0-02  
5 7936 12799 4864 2.4M  
6 12544 16127 3584 1.8M

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Version 2.1, February 1999

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 \*/

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## 1.199.1 Available under license :

NR START END SECTORS SIZE NAME UUID

1 32 7679 7648 3.7M 8f8378c0-01  
 2 7680 16383 8704 4.3M 8f8378c0-02  
 5 7936 12799 4864 2.4M  
 6 12544 16127 3584 1.8M

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

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# 1.211 go-uber-org-atomic 1.11.0

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# 1.212 github.com/coreos/go-systemd/v22

## 22.5.0

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# 1.214 github.com/jcmtturner/gokrb5/v8 8.4.4

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# 1.216 [github.com/zeebo/xxh3](https://github.com/zeebo/xxh3) 1.0.2

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# 1.217 [json iterator go](https://github.com/stephenhoyer/json-iterator-go) 1.1.12

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```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.  
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {  
    c.(*conn).noticeHandler = handler  
}
```

```
// NoticeHandlerConnector wraps a regular connector and sets a notice handler  
//  
on it.  
type NoticeHandlerConnector struct {  
    driver.Connector
```

```

noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

```

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## 1.219 yaml 3.0.1

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 */
```

Found in path(s):

```
* /groovy-yaml-3-0-1-sources-jar/org/apache/groovy/yaml/util/YamlConverter.java
* /groovy-yaml-3-0-1-sources-jar/groovy/yaml/YamlBuilder.java
*
/groovy-yaml-3-0-1-sources-jar/groovy/yaml/YamlSlurper.java
* /groovy-yaml-3-0-1-sources-jar/groovy/yaml/YamlRuntimeException.java
```

## 1.220 olekukonko-tablewriter 0.0.5

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## 1.221 nghttp2 1.43.0-1ubuntu0.2

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Upstream-Name: nghttp2

Upstream-Contact: Tatsuhiro Tsujikawa <t-tujikawa@users.sourceforge.net>

Source: <https://github.com/tatsuhiro-t/nghttp2>

Files: \*

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Files: third-party/http-parser/http\_parser.c

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2011-2013 Nginx, Inc.

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Comment: Based on src/http/nginx\_http\_parse.c from NGINX copyright Igor Sysoev.

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Files: third-party/mruby/\*



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## 1.222 go-multierror 1.1.1

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# 1.224 hashicorp-uuid 1.0.3

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  being @var{list}.
@end group
@end smallexample

```

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```

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

```

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### Version 3, 29 June 2007

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gokrb5

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- \* /colorjson-1-0-8-zip/colorjson-1.0.8/tables.go
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## 1.238 [github.com/rabbitmq/amqp091-go](https://github.com/rabbitmq/amqp091-go)

### 1.10.0

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AMQP 0-9-1 Go Client

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A

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## 1.248 e2fsprogs 1.46.5-2ubuntu1.2

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003



It is part of the main e2fsprogs distribution, which can be found at:

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

```

# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes

- 
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Gadi Oxman, August 1995

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```
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```

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```
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```

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Theodore Ts'o  
23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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## 1.249 logsave 1.46.5-2ubuntu1.2

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;' /\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Theodore Ts'o

23-June-2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# 1.250 libext2fs2 1.46.5-2ubuntu1.2

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBSJ)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBSJ))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;' /\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

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--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
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- 
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Theodore Ts'o  
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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-----

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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# 1.251 libss 1.46.5-2ubuntu1.2

## 1.251.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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#

# This is a Makefile stub which handles the creation of BSD shared # libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'~'\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
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Theodore Ts'o  
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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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# 1.252 libcom-err 1.46.5-2ubuntu1.2

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'`/\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.

+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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Theodore Ts'o  
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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## 1.253 lib-pq 1.10.9

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```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A
```

```
// runtime panic occurs if c is not a pq connection. This is rarely used
```

```

// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and

```

```

setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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```

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# 1.254 kr-fs 0.1.0

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# 1.255 structs 1.1.0

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## 1.259 highwayhash 1.0.3

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## 1.268 go-runewidth 0.0.16

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## 1.269 thrift 0.21.0

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lib/erl/src/Makefile.am

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For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
  json_parse.js
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```

```
*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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*/
```

-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
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//
//////////////////////////////////////////////////////////////////
```

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Codegen template

in t\_html\_generator.h

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## 1.274 github.com/lestrrat-go/httpc 1.0.6

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
```

)

```
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
```

```

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

//go:build go1.23

package compute\_test

import (

    "context"

    compute "cloud.google.com/go/compute/apiv1"

```

compute pb "cloud.google.com/go/compute/apiv1/compute pb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute pb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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//go:build go1.23

package procurement_test

```

```

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

```

```

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```

```

[]int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
    // Allow automatic assignments triggered by data plane operations.
    AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
    `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState

```



```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.

```

```

func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
}

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if
ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
if x != nil {
return x.Name
}
return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. The license pool to update.
//

```

```

// The license pool's name field is used to identify the license pool to
// update. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`.
LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
//
Required. The list of fields to update.
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
*x = UpdateLicensePoolRequest{ }
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
if x != nil {

```

```

    return x.LicensePool
}
return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer

```



```

vice.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState

```

```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Optional. The maximum number of users to return. The service may return
// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

```

```

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
}

```

```

return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]

```

```

if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
        []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

```

```

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

```

```

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protorelect.FileDescriptor

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
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    0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x64,
}

```



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0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,  
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,  
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,  
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,  
0x64, 0x2e, 0x43,  
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,  
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,

```

0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),
        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil),
        // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil),
        // 10:

```

```

google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.prourement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.prourement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.prourement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.prourement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.prourement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.prourement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.prourement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.prourement.v1.UnassignRequest
    8, // 13:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersRequest
    1, // 14:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.prourement.v1.LicensePool
    1, // 15:

```

```

google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
}

```



```

File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
    // Assigns a license to a user.
    Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *LicenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)

```

```

if err != nil {
    return nil, err
}
return
out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {

```

```

    return nil, err
}
return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {

```

```

s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }

```

```

}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).Assign(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",

```

```

}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{ },
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
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//
// https://www.apache.org/licenses/LICENSE-2.0
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```

```

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

// Copyright 2024 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var

```

```
newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {  
    Delete      []gax.CallOption  
    Get         []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert      []gax.CallOption  
    List        []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption  
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {
```

```
    return &LicensesCallOptions{  
        Delete: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
        Get: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
            gax.WithRetry(func() gax.Retryer {  
                return gax.OnHTTPCodes(gax.Backoff{  
                    Initial: 100 * time.Millisecond,  
                    Max:     60000 * time.Millisecond,  
                    Multiplier: 1.30,  
                },  
                    http.StatusGatewayTimeout,  
                    http.StatusServiceUnavailable)  
            }),  
        },  
        GetIamPolicy: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
            gax.WithRetry(func() gax.Retryer {  
                return gax.OnHTTPCodes(gax.Backoff{  
                    Initial: 100 * time.Millisecond,  
                    Max:     60000 * time.Millisecond,  
                    Multiplier: 1.30,  
                },  
                    http.StatusGatewayTimeout,  
                    http.StatusServiceUnavailable)  
            }),  
        },  
        Insert: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
        List: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),  
        },  
    }
```



```

gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
    Initial: 100 * time.Millisecond,
    Max:     60000 * time.Millisecond,
    Multiplier: 1.30,
},
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.

```

```

CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

```

```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

```

```

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
CallOptions: &callOpts,
logger: internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

```

```

    internaloption.EnableNewAuthLibrary(),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{ "gl-go", gax.GoVersion }, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
}

```

```

}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client
and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

```

```

return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
    hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

        if err := unmarshal(buf, resp); err != nil {
            return err
        }

        return nil
    }, opts...)
    if e != nil {
        return nil, e
    }
}

```

```

    }
    return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
    "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")

```



```

    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)

```

```

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{ }
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {

```

```

resp := &computepb.LicensesListResponse{ }
if pageToken != "" {
    req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32
{
    req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
if err != nil {
    return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

```

```

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

```

```

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
}

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {

```

```

    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds
:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is

intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
        if err !=
        nil {
            return err
        }
    })
```

```

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2024 Google LLC
//
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// you may not use this file except in compliance with the License.
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//
//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.

```



```

}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }

```

```

defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //

```

TODO: Use resp.

```
_ = resp  
}
```

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
```

```
    ctx := context.Background()
```

```
    // This snippet has been automatically generated and should be regarded as a code template only.
```

```
    // It will require modifications to work:
```

```
    // - It may require correct/in-range values for request initialization.
```

```
    // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
```

```
    c, err := procurement.NewLicenseManagementClient(ctx)
```

```
    if err != nil {
```

```
        // TODO: Handle error.
```

```
    }
```

```
    defer c.Close()
```

```
    req := &procurementpb.EnumerateLicensedUsersRequest{
```

```
        // TODO: Fill request struct fields.
```

```
        // See
```

```
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
```

```
    }
```

```
    it := c.EnumerateLicensedUsers(ctx, req)
```

```
    for {
```

```
        resp, err := it.Next()
```

```
        if err == iterator.Done {
```

```
            break
```

```
        }
```

```
        if err != nil {
```

```
            // TODO: Handle error.
```

```
        }
```

```
        //
```

```
        TODO: Use resp.
```

```
        _ = resp
```

```
        // If you need to access the underlying RPC response,
```

```
        // you can do so by casting the `Response` as below.
```

```
        // Otherwise, remove this line. Only populated after
```

```
        // first call to Next(). Not safe for concurrent access.
```

```
        _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
```

```
    }
```

```
}
```

```
func ExampleLicenseManagementClient_GetLicensePool() {
```

```
    ctx := context.Background()
```

```
    // This snippet has been automatically generated and should be regarded as a code template only.
```

```
    // It will require modifications to work:
```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
    // TODO: Fill request struct fields.
    //
    See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
    quest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }

```

```
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

```

reflect "reflect"
sync "sync"

_ "google.golang.org/genproto/googleapis/api/annotations"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANT_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANT_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANT_TYPE_UNSPECIFIED": 0,
        "USER":                  1,
        "GROUP":                 2,
        "EVERYONE":              3,
    }
)

```

```

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
    }

```

```

3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":          1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

func (x Permission_Role) String() string {
return
protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous

```

```

// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message

```

```

{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
if x != nil && x.GranteeType != nil {
return *x.GranteeType
}
return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
if x != nil && x.EmailAddress != nil {
return *x.EmailAddress
}
return ""
}

func (x *Permission) GetRole() Permission_Role {
if x != nil && x.Role != nil {
return *x.Role
}
return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54,
    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
    0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
    0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
    0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
    0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
```



```

0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),    // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->

```

```

google.ai.generativelanguage.v1beta.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

## 1.276 auto-sdk 1.1.0

### 1.276.1 Available under license :

```

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```

```
package version
```

```

// Collection is a type that implements the sort.Interface interface
// so that versions can be sorted.

```

```
type Collection []*Version
```

```
func (v Collection) Len() int {  
    return len(v)  
}
```

```
func (v Collection) Less(i, j int) bool {  
    return v[i].LessThan(v[j])  
}
```

```
func (v Collection) Swap(i, j int) {  
    v[i], v[j] = v[j], v[i]  
}
```

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package version

```
import (  
    "reflect"  
    "sort"  
    "testing"  
)
```

```
func TestCollection(t *testing.T) {  
    versionsRaw := []string{  
        "1.1.1",  
        "1.0",  
        "1.2",  
        "2",  
        "0.7.1",  
    }  
}
```

```
versions := make([]*Version, len(versionsRaw))  
for i, raw := range versionsRaw {  
    v, err := NewVersion(raw)  
    if err != nil {  
        t.Fatalf("err: %s", err)  
    }  
}
```

```
versions[i] = v
}
```

```
sort.Sort(Collection(versions))
```

```
actual := make([]string, len(versions))
for i, v := range versions {
    actual[i] = v.String()
}
```

```
expected := []string{
    "0.7.1",
    "1.0.0",
    "1.1.1",
    "1.2.0",
    "2.0.0",
}
```

```
if !reflect.DeepEqual(actual, expected) {
    t.Fatalf("bad: %#v", actual)
}
}
```

```
name: go-tests
```

```
on: [push]
```

```
env:
```

```
TEST_RESULTS: /tmp/test-results
```

```
jobs:
```

```
go-tests:
```

```
  runs-on: ubuntu-latest
```

```
  strategy:
```

```
    matrix:
```

```
      go-version: [ 1.15.3, 1.19 ]
```

```
  steps:
```

```
    - name: Setup go
```

```
      uses: actions/setup-go@41dfa10bad2bb2ae585af6ee5bb4d7d973ad74ed # v5.1.0
```

```
      with:
```

```
        go-version: ${{ matrix.go-version }}
```

```
    - name: Checkout code
```

```
      uses: actions/checkout@11bd71901bbe5b1630cee73d27597364c9af683 # v4.2.2
```

```
    - name: Create test directory
```

```
      run: |
```

```

mkdir -p ${ env.TEST_RESULTS }

- name: Download go modules
run: go mod download

- name: Cache / restore go modules
uses: actions/cache@1bd1e32a3bdc45362d1e726936510720a7c30a57 # v4.2.0
with:
  path: |
    ~/go/pkg/mod
  key: ${ runner.os }-go-${ hashFiles('**/go.sum') }
  restore-keys: |
    ${ runner.os }-go-

# Check go fmt output because it does not report
non-zero when there are fmt changes
- name: Run gofmt
run: |
  go fmt ./...
  files=$(go fmt ./...)
  if [ -n "$files" ]; then
    echo "The following file(s) do not conform to go fmt:"
    echo "$files"
    exit 1
  fi

# Install gotestsum with go get for 1.15.3; otherwise default to go install
- name: Install gotestsum
run: |
  GTS="gotest.tools/gotestsum@v1.8.2"
  # We use the same error message prefix in either failure case, so just define it once here.
  ERROR="Failed to install $GTS"
  # First try to 'go install', if that fails try 'go get'...
  go install "$GTS" || go get "$GTS" || { echo "$ERROR: both 'go install' and 'go get' failed"; exit 1; }
  # Check that the gotestsum command was actually installed in the path...
  command -v gotestsum > /dev/null 2>&1 || { echo "$ERROR: gotestsum command not installed"; exit
1; }
  echo "OK: Command 'gotestsum' installed ($GTS)"

- name: Run go tests
run: |
  PACKAGE_NAMES=$(go list ./...)
  gotestsum --format=short-verbose --junitfile $TEST_RESULTS/gotestsum-report.xml --
$PACKAGE_NAMES

# Save coverage report parts
- name: Upload and save artifacts
uses: actions/upload-artifact@b4b15b8c7c6ac21ea08fcf65892d2ee8f75cf882 # v4.4.3

```

with:

name: Test Results

path: \${ env.TEST\_RESULTS }

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Version 2.0, January 2004

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# Versioning Library for Go

![Build Status](<https://github.com/hashicorp/go-version/actions/workflows/go-tests.yml/badge.svg>)

![GoDoc](<https://godoc.org/github.com/hashicorp/go-version?status.svg>)(<https://godoc.org/github.com/hashicorp/go-version>)

go-version is a library for parsing versions and version constraints,  
and verifying versions against a set of constraints. go-version  
can sort a collection of versions properly, handles prerelease/beta  
versions, can increment versions, etc.

Versions used with go-version must follow [SemVer](<http://semver.org/>).

## Installation and Usage

Package documentation can be found on  
[GoDoc](<http://godoc.org/github.com/hashicorp/go-version>).

Installation can be done with a normal `go get`:

---

\$ go get github.com/hashicorp/go-version

---

#### Version Parsing and Comparison

```go

v1, err := version.NewVersion("1.2")

```
v2, err := version.NewVersion("1.5+metadata")

// Comparison example. There is also GreaterThan, Equal, and just
// a simple Compare
// that returns an int allowing easy >=, <=, etc.
if v1.LessThan(v2) {
    fmt.Printf("%s is less than %s", v1, v2)
}
...

```

#### #### Version Constraints

```
```go
v1, err := version.NewVersion("1.2")

// Constraints example.
constraints, err := version.NewConstraint(">= 1.0, < 1.4")
if constraints.Check(v1) {
    fmt.Printf("%s satisfies constraints %s", v1, constraints)
}
...

```

#### #### Version Sorting

```
```go
versionsRaw := []string{"1.1", "0.7.1", "1.4-beta", "1.4", "2"}
versions := make([]*version.Version, len(versionsRaw))
for i, raw := range versionsRaw {
    v, _ := version.NewVersion(raw)
    versions[i] = v
}

// After this, the versions are properly sorted
sort.Sort(version.Collection(versions))
...

```

#### ## Issues and Contributing

If you find an issue with this library, please report an issue. If you'd like, we welcome any contributions. Fork this library and submit a pull request.

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package version

```
import (  
    "encoding/json"  
    "fmt"  
    "reflect"  
    "testing"  
)
```

```
func TestNewVersion(t *testing.T) {  
    cases := []struct {  
        version string  
        err      bool  
    }{  
        {"", true},  
        {"1.2.3", false},  
        {"1.0", false},  
        {"1", false},  
        {"1.2.beta", true},  
    }
```

```

{"1.21.beta", true},
{"foo", true},
{"1.2-5", false},
{"1.2-beta.5", false},
{"\n1.2", true},
{"1.2.0-x.Y.0+metadata", false},
{"1.2.0-x.Y.0+metadata-width-hyphen", false},
{"1.2.3-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"1.2.0.4-x.Y.0+metadata", false},
{"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
{"1.2.0-X-1.2.0+metadata~dist", false},
{"1.2.3.4-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"v1.2.3", false},
{"foo1.2.3", true},
{"1.7rc2", false},
{"v1.7rc2", false},
{"1.0-", false},
}

```

```

for _, tc := range cases {
    _, err := NewVersion(tc.version)
    if tc.err && err == nil {
        t.Fatalf("expected error for version:
        %q", tc.version)
    } else if !tc.err && err != nil {
        t.Fatalf("error for version %q: %s", tc.version, err)
    }
}
}

```

```

func TestNewSemver(t *testing.T) {
    cases := []struct {
        version string
        err      bool
    }{
        {"", true},
        {"1.2.3", false},
        {"1.0", false},
        {"1", false},
        {"1.2.beta", true},
        {"1.21.beta", true},
        {"foo", true},
        {"1.2-5", false},
        {"1.2-beta.5", false},
        {"\n1.2", true},
        {"1.2.0-x.Y.0+metadata", false},
    }
}

```



```

{"1.2.0-x.Y.0+metadata-width-hyphen", false},
{"1.2.3-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"1.2.0.4-x.Y.0+metadata", false},
{"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
{"1.2.0-X-1.2.0+metadata~dist", false},
{"1.2.3.4-rc1-with-hyphen", false},
{"1.2.3.4", false},
{"v1.2.3", false},
{"foo1.2.3", true},
{"1.7rc2", true},
{"v1.7rc2", true},
{"1.0-", true},
}

```

```

for _, tc := range cases {
    _, err := NewSemver(tc.version)
    if tc.err && err == nil {
        t.Fatalf("expected error for version: %q", tc.version)
    } else
    if !tc.err && err != nil {
        t.Fatalf("error for version %q: %s", tc.version, err)
    }
}
}

```

```

func TestCore(t *testing.T) {
    cases := []struct {
        v1 string
        v2 string
    }{
        {"1.2.3", "1.2.3"},
        {"2.3.4-alpha1", "2.3.4"},
        {"3.4.5alpha1", "3.4.5"},
        {"1.2.3-2", "1.2.3"},
        {"4.5.6-beta1+meta", "4.5.6"},
        {"5.6.7.1.2.3", "5.6.7"},
    }
}

```

```

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("error for version %q: %s", tc.v1, err)
    }
    v2, err := NewVersion(tc.v2)
    if err != nil {
        t.Fatalf("error for version %q: %s", tc.v2, err)
    }
}

```

```

actual := v1.Core()
expected := v2

if !reflect.DeepEqual(actual, expected) {
    t.Fatalf("expected: %s\nactual: %s", expected, actual)
}
}
}

```

```

func TestVersionCompare(t *testing.T) {
    cases := []struct {
        v1    string
        v2    string
        expected int
    }{
        {"1.2.3", "1.4.5", -1},
        {"1.2-beta", "1.2-beta", 0},
        {"1.2", "1.1.4", 1},
        {"1.2", "1.2-beta", 1},
        {"1.2+foo", "1.2+beta", 0},
        {"v1.2", "v1.2-beta",
1},
        {"v1.2+foo", "v1.2+beta", 0},
        {"v1.2.3.4", "v1.2.3.4", 0},
        {"v1.2.0.0", "v1.2", 0},
        {"v1.2.0.0.1", "v1.2", 1},
        {"v1.2", "v1.2.0.0", 0},
        {"v1.2", "v1.2.0.0.1", -1},
        {"v1.2.0.0", "v1.2.0.0.1", -1},
        {"v1.2.3.0", "v1.2.3.4", -1},
        {"1.7rc2", "1.7rc1", 1},
        {"1.7rc2", "1.7", -1},
        {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", 1},
    }
}

```

```

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("err: %s", err)
    }
}

```

```

v2, err := NewVersion(tc.v2)
if err != nil {
    t.Fatalf("err: %s", err)
}

```

```

actual := v1.Compare(v2)

```

```

expected := tc.expected
if actual != expected {
    t.Fatalf(
        "%s <=> %s\nexpected: %d\nactual: %d",
        tc.v1, tc.v2,
        expected, actual)
    }
}

func TestVersionCompare_versionAndSemver(t *testing.T) {
    cases := []struct {
        versionRaw string
        semverRaw  string
        expected   int
    }{
        {"0.0.2", "0.0.2", 0},
        {"1.0.2alpha", "1.0.2-alpha", 0},
        {"v1.2+foo", "v1.2+beta", 0},
        {"v1.2", "v1.2+meta", 0},
        {"1.2",
        "1.2-beta", 1},
        {"v1.2", "v1.2-beta", 1},
        {"1.2.3", "1.4.5", -1},
        {"v1.2", "v1.2.0.0.1", -1},
        {"v1.0.3-", "v1.0.3", -1},
    }

    for _, tc := range cases {
        ver, err := NewVersion(tc.versionRaw)
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        semver, err := NewSemver(tc.semverRaw)
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        actual := ver.Compare(semver)
        if actual != tc.expected {
            t.Fatalf(
                "%s <=> %s\nexpected: %d\n actual: %d",
                tc.versionRaw, tc.semverRaw, tc.expected, actual,
            )
        }
    }
}

```

```

func TestVersionEqual_nil(t *testing.T) {
    mustVersion := func(v string) *Version {
        ver, err := NewVersion(v)
        if err != nil {
            t.Fatal(err)
        }
        return ver
    }
    cases := []struct {
        leftVersion *Version
        rightVersion *Version
        expected    bool
    }{
        {mustVersion("1.0.0"), nil, false},
        {nil, mustVersion("1.0.0"), false},
        {nil, nil, true},
    }

    for _, tc := range cases {
        given := tc.leftVersion.Equal(tc.rightVersion)
        if given != tc.expected {
            t.Fatalf("expected
Equal to nil to be %t", tc.expected)
        }
    }
}

```

```

func TestComparePreReleases(t *testing.T) {
    cases := []struct {
        v1    string
        v2    string
        expected int
    }{
        {"1.2-beta.2", "1.2-beta.2", 0},
        {"1.2-beta.1", "1.2-beta.2", -1},
        {"1.2-beta.2", "1.2-beta.11", -1},
        {"3.2-alpha.1", "3.2-alpha", 1},
        {"1.2-beta.2", "1.2-beta.1", 1},
        {"1.2-beta.11", "1.2-beta.2", 1},
        {"1.2-beta", "1.2-beta.3", -1},
        {"1.2-alpha", "1.2-beta.3", -1},
        {"1.2-beta", "1.2-alpha.3", 1},
        {"3.0-alpha.3", "3.0-rc.1", -1},
        {"3.0-alpha3", "3.0-rc1", -1},
        {"3.0-alpha.1", "3.0-alpha.beta", -1},
        {"5.4-alpha", "5.4-alpha.beta", 1},
        {"v1.2-beta.2", "v1.2-beta.2", 0},
    }
}

```

```

{"v1.2-beta.1", "v1.2-beta.2", -1},
{"v3.2-alpha.1", "v3.2-alpha", 1},
{"v3.2-rc.1-1-g123", "v3.2-rc.2", 1},
}

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    v2, err := NewVersion(tc.v2)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual
:= v1.Compare(v2)
    expected := tc.expected
    if actual != expected {
        t.Fatalf(
            "%s <=> %s\nexpected: %d\nactual: %d",
            tc.v1, tc.v2,
            expected, actual)
    }
}

func TestVersionMetadata(t *testing.T) {
    cases := []struct {
        version string
        expected string
    }{
        {"1.2.3", ""},
        {"1.2-beta", ""},
        {"1.2.0-x.Y.0", ""},
        {"1.2.0-x.Y.0+metadata", "metadata"},
        {"1.2.0-metadata-1.2.0+metadata~dist", "metadata~dist"},
    }

    for _, tc := range cases {
        v, err := NewVersion(tc.version)
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        actual := v.Metadata()
        expected := tc.expected

```

```

    if actual != expected {
        t.Fatalf("expected: %s\nactual: %s", expected, actual)
    }
}

func TestVersionPrerelease(t *testing.T) {
    cases := []struct {
        version string
        expected string
    }{
        {"1.2.3", ""},
        {"1.2-beta", "beta"},
        {"1.2.0-x.Y.0", "x.Y.0"},
        {"1.2.0-7.Y.0", "7.Y.0"},
        {"1.2.0-x.Y.0+metadata", "x.Y.0"},
        {"1.2.0-metadata-1.2.0+metadata~dist", "metadata-1.2.0"},
        {"17.03.0-ce",
"ce"}, // zero-padded fields
    }

    for _, tc := range cases {
        v, err := NewVersion(tc.version)
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        actual := v.Prerelease()
        expected := tc.expected
        if actual != expected {
            t.Fatalf("expected: %s\nactual: %s", expected, actual)
        }
    }
}

func TestVersionSegments(t *testing.T) {
    cases := []struct {
        version string
        expected []int
    }{
        {"1.2.3", []int{1, 2, 3}},
        {"1.2-beta", []int{1, 2, 0}},
        {"1-x.Y.0", []int{1, 0, 0}},
        {"1.2.0-x.Y.0+metadata", []int{1, 2, 0}},
        {"1.2.0-metadata-1.2.0+metadata~dist", []int{1, 2, 0}},
        {"17.03.0-ce", []int{17, 3, 0}}, // zero-padded fields
    }
}

```

```

for _, tc := range cases {
    v, err := NewVersion(tc.version)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual := v.Segments()
    expected := tc.expected
    if !reflect.DeepEqual(actual, expected) {
        t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
    }
}

func TestVersionSegments64(t *testing.T) {
    cases
    := []struct {
        version string
        expected []int64
    }{
        {"1.2.3", []int64{1, 2, 3}},
        {"1.2-beta", []int64{1, 2, 0}},
        {"1-x.Y.0", []int64{1, 0, 0}},
        {"1.2.0-x.Y.0+metadata", []int64{1, 2, 0}},
        {"1.4.9223372036854775807", []int64{1, 4, 9223372036854775807}},
    }

    for _, tc := range cases {
        v, err := NewVersion(tc.version)
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        actual := v.Segments64()
        expected := tc.expected
        if !reflect.DeepEqual(actual, expected) {
            t.Fatalf("expected: %#v\nactual: %#v", expected, actual)
        }

        {
            expected := actual[0]
            actual[0]++
            actual = v.Segments64()
            if actual[0] != expected {
                t.Fatalf("Segments64 is mutable")
            }
        }
    }
}

```

```

}

func TestJsonMarshal(t *testing.T) {
    cases := []struct {
        version string
        err      bool
    }{
        {"1.2.3", false},
        {"1.2.0-x.Y.0+metadata", false},
        {"1.2.0-x.Y.0+metadata-width-hyphen", false},
        {"1.2.3-rc1-with-hyphen", false},
        {"1.2.3.4", false},
        {"1.2.0.4-x.Y.0+metadata", false},
        {"1.2.0.4-x.Y.0+metadata-width-hyphen",
false},
        {"1.2.0-X-1.2.0+metadata~dist", false},
        {"1.2.3.4-rc1-with-hyphen", false},
        {"1.2.3.4", false},
    }

    for _, tc := range cases {
        v, err1 := NewVersion(tc.version)
        if err1 != nil {
            t.Fatalf("error for version %q: %s", tc.version, err1)
        }

        parsed, err2 := json.Marshal(v)
        if err2 != nil {
            t.Fatalf("error marshaling version %q: %s", tc.version, err2)
        }
        result := string(parsed)
        expected := fmt.Sprintf("%q", tc.version)
        if result != expected && !tc.err {
            t.Fatalf("Error marshaling unexpected marshaled content: result=%q expected=%q", result, expected)
        }
    }
}

func TestJsonUnmarshal(t *testing.T) {
    cases := []struct {
        version string
        err      bool
    }{
        {"1.2.3", false},
        {"1.2.0-x.Y.0+metadata", false},
        {"1.2.0-x.Y.0+metadata-width-hyphen", false},
        {"1.2.3-rc1-with-hyphen", false},
        {"1.2.3.4", false},
    }

```



```

{"1.2.0.4-x.Y.0+metadata", false},
{"1.2.0.4-x.Y.0+metadata-width-hyphen", false},
{"1.2.0-X-1.2.0+metadata~dist",
false},
{"1.2.3.4-rc1-with-hyphen", false},
{"1.2.3.4", false},
}

for _, tc := range cases {
    expected, err1 := NewVersion(tc.version)
    if err1 != nil {
        t.Fatalf("err: %s", err1)
    }

    actual := &Version{}
    err2 := json.Unmarshal([]byte(fmt.Sprintf("%q", tc.version)), actual)
    if err2 != nil {
        t.Fatalf("error unmarshaling version: %s", err2)
    }
    if !reflect.DeepEqual(actual, expected) {
        t.Fatalf("error unmarshaling, unexpected object content: actual=%q expected=%q", actual, expected)
    }
}

func TestVersionString(t *testing.T) {
    cases := [][]string{
        {"1.2.3", "1.2.3"},
        {"1.2-beta", "1.2.0-beta"},
        {"1.2.0-x.Y.0", "1.2.0-x.Y.0"},
        {"1.2.0-x.Y.0+metadata", "1.2.0-x.Y.0+metadata"},
        {"1.2.0-metadata-1.2.0+metadata~dist", "1.2.0-metadata-1.2.0+metadata~dist"},
        {"17.03.0-ce", "17.3.0-ce"}, // zero-padded fields
    }

    for _, tc := range cases {
        v, err := NewVersion(tc[0])
        if err != nil {
            t.Fatalf("err: %s", err)
        }

        actual := v.String()
        expected
        := tc[1]
        if actual != expected {
            t.Fatalf("expected: %s\nactual: %s", expected, actual)
        }
        if actual := v.Original(); actual != tc[0] {

```

```

    t.Fatalf("expected original: %q\nactual: %q", tc[0], actual)
}
}
}

```

```

func TestEqual(t *testing.T) {
cases := []struct {
    v1    string
    v2    string
    expected bool
}{
    {"1.2.3", "1.4.5", false},
    {"1.2-beta", "1.2-beta", true},
    {"1.2", "1.1.4", false},
    {"1.2", "1.2-beta", false},
    {"1.2+foo", "1.2+beta", true},
    {"v1.2", "v1.2-beta", false},
    {"v1.2+foo", "v1.2+beta", true},
    {"v1.2.3.4", "v1.2.3.4", true},
    {"v1.2.0.0", "v1.2", true},
    {"v1.2.0.0.1", "v1.2", false},
    {"v1.2", "v1.2.0.0", true},
    {"v1.2", "v1.2.0.0.1", false},
    {"v1.2.0.0", "v1.2.0.0.1", false},
    {"v1.2.3.0", "v1.2.3.4", false},
    {"1.7rc2", "1.7rc1", false},
    {"1.7rc2", "1.7", false},
    {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
}

```

```

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("err:
%s", err)
    }

```

```

    v2, err := NewVersion(tc.v2)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

```

```

    actual := v1.Equal(v2)
    expected := tc.expected
    if actual != expected {
        t.Fatalf(
            "%s <=> %s\nexpected: %t\nactual: %t",
            tc.v1, tc.v2,

```

```

    expected, actual)
}
}
}

func TestGreaterThan(t *testing.T) {
cases := []struct {
    v1    string
    v2    string
    expected bool
}{
    {"1.2.3", "1.4.5", false},
    {"1.2-beta", "1.2-beta", false},
    {"1.2", "1.1.4", true},
    {"1.2", "1.2-beta", true},
    {"1.2+foo", "1.2+beta", false},
    {"v1.2", "v1.2-beta", true},
    {"v1.2+foo", "v1.2+beta", false},
    {"v1.2.3.4", "v1.2.3.4", false},
    {"v1.2.0.0", "v1.2", false},
    {"v1.2.0.0.1", "v1.2", true},
    {"v1.2", "v1.2.0.0", false},
    {"v1.2", "v1.2.0.0.1", false},
    {"v1.2.0.0", "v1.2.0.0.1", false},
    {"v1.2.3.0", "v1.2.3.4", false},
    {"1.7rc2", "1.7rc1", true},
    {"1.7rc2", "1.7", false},
    {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
}

for _, tc := range cases {
    v1,
err := NewVersion(tc.v1)
if err != nil {
    t.Fatalf("err: %s", err)
}

v2, err := NewVersion(tc.v2)
if err != nil {
    t.Fatalf("err: %s", err)
}

actual := v1.GreaterThan(v2)
expected := tc.expected
if actual != expected {
    t.Fatalf(
        "%s > %s\nexpected: %t\nactual: %t",
        tc.v1, tc.v2,

```

```

    expected, actual)
}
}
}

func TestLessThan(t *testing.T) {
cases := []struct {
    v1    string
    v2    string
    expected bool
}{
    {"1.2.3", "1.4.5", true},
    {"1.2-beta", "1.2-beta", false},
    {"1.2", "1.1.4", false},
    {"1.2", "1.2-beta", false},
    {"1.2+foo", "1.2+beta", false},
    {"v1.2", "v1.2-beta", false},
    {"v1.2+foo", "v1.2+beta", false},
    {"v1.2.3.4", "v1.2.3.4", false},
    {"v1.2.0.0", "v1.2", false},
    {"v1.2.0.0.1", "v1.2", false},
    {"v1.2", "v1.2.0.0", false},
    {"v1.2", "v1.2.0.0.1", true},
    {"v1.2.0.0", "v1.2.0.0.1", true},
    {"v1.2.3.0", "v1.2.3.4", true},
    {"1.7rc2", "1.7rc1", false},
    {"1.7rc2", "1.7", true},
    {"1.2.0", "1.2.0-X-1.2.0+metadata~dist",
false},
}

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    v2, err := NewVersion(tc.v2)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual := v1.LessThan(v2)
    expected := tc.expected
    if actual != expected {
        t.Fatalf(
            "%s < %s\nexpected: %t\nactual: %t",
            tc.v1, tc.v2,

```

```

    expected, actual)
}
}
}

func TestGreaterThanOrEqual(t *testing.T) {
cases := []struct {
    v1    string
    v2    string
    expected bool
}{
    {"1.2.3", "1.4.5", false},
    {"1.2-beta", "1.2-beta", true},
    {"1.2", "1.1.4", true},
    {"1.2", "1.2-beta", true},
    {"1.2+foo", "1.2+beta", true},
    {"v1.2", "v1.2-beta", true},
    {"v1.2+foo", "v1.2+beta", true},
    {"v1.2.3.4", "v1.2.3.4", true},
    {"v1.2.0.0", "v1.2", true},
    {"v1.2.0.0.1", "v1.2", true},
    {"v1.2", "v1.2.0.0", true},
    {"v1.2", "v1.2.0.0.1", false},
    {"v1.2.0.0", "v1.2.0.0.1", false},
    {"v1.2.3.0", "v1.2.3.4", false},
    {"1.7rc2", "1.7rc1", true},
    {"1.7rc2",
"1.7", false},
    {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", true},
}

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    v2, err := NewVersion(tc.v2)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual := v1.GreaterThanOrEqual(v2)
    expected := tc.expected
    if actual != expected {
        t.Fatalf(
            "%s >= %s\nexpected: %t\nactual: %t",
            tc.v1, tc.v2,

```

```

    expected, actual)
}
}
}

func TestLessThanOrEqual(t *testing.T) {
cases := []struct {
    v1    string
    v2    string
    expected bool
}{
    {"1.2.3", "1.4.5", true},
    {"1.2-beta", "1.2-beta", true},
    {"1.2", "1.1.4", false},
    {"1.2", "1.2-beta", false},
    {"1.2+foo", "1.2+beta", true},
    {"v1.2", "v1.2-beta", false},
    {"v1.2+foo", "v1.2+beta", true},
    {"v1.2.3.4", "v1.2.3.4", true},
    {"v1.2.0.0", "v1.2", true},
    {"v1.2.0.0.1", "v1.2", false},
    {"v1.2", "v1.2.0.0", true},
    {"v1.2", "v1.2.0.0.1", true},
    {"v1.2.0.0", "v1.2.0.0.1", true},
    {"v1.2.3.0",
"v1.2.3.4", true},
    {"1.7rc2", "1.7rc1", false},
    {"1.7rc2", "1.7", true},
    {"1.2.0", "1.2.0-X-1.2.0+metadata~dist", false},
}

for _, tc := range cases {
    v1, err := NewVersion(tc.v1)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    v2, err := NewVersion(tc.v2)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual := v1.LessThanOrEqual(v2)
    expected := tc.expected
    if actual != expected {
        t.Fatalf(
            "%s <= %s\nexpected: %t\nactual: %t",
            tc.v1, tc.v2,

```

```
    expected, actual)
  }
}
}
```

Data model artifacts for Prometheus.

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# 1.7.0 (May 24, 2024)

#### ENHANCEMENTS:

- Remove `reflect` dependency ([#91](https://github.com/hashicorp/go-version/pull/91))
- Implement the `database/sql.Scanner` and `database/sql/driver.Value` interfaces for `Version` ([#133](https://github.com/hashicorp/go-version/pull/133))

#### INTERNAL:

- [COMPLIANCE] Add Copyright and License Headers ([#115](https://github.com/hashicorp/go-version/pull/115))
- [COMPLIANCE] Update MPL-2.0 LICENSE ([#105](https://github.com/hashicorp/go-version/pull/105))
- Bump actions/cache from 3.0.11 to 3.2.5 ([#116](https://github.com/hashicorp/go-version/pull/116))
- Bump actions/checkout from 3.2.0 to 3.3.0 ([#111](https://github.com/hashicorp/go-version/pull/111))
- Bump actions/upload-artifact from 3.1.1 to 3.1.2 ([#112](https://github.com/hashicorp/go-version/pull/112))
- GHA Migration ([#103](https://github.com/hashicorp/go-version/pull/103))
- github: Pin external GitHub Actions to hashes ([#107](https://github.com/hashicorp/go-version/pull/107))
- SEC-090:  
Automated trusted workflow pinning (2023-04-05) ([#124](https://github.com/hashicorp/go-version/pull/124))
- update readme ([#104](https://github.com/hashicorp/go-version/pull/104))

# 1.6.0 (June 28, 2022)

#### FEATURES:

- Add `Prerelease` function to `Constraint` to return true if the version includes a prerelease field ([#100](https://github.com/hashicorp/go-version/pull/100))

# 1.5.0 (May 18, 2022)

#### FEATURES:

- Use ``encoding`` ``TextMarshaler`` & ``TextUnmarshaler`` instead of JSON equivalents ([#95](https://github.com/hashicorp/go-version/pull/95))
- Add JSON handlers to allow parsing from/to JSON ([#93](https://github.com/hashicorp/go-version/pull/93))

# 1.4.0 (January 5, 2022)

#### FEATURES:

- Introduce ``MustConstraints()`` ([#87](https://github.com/hashicorp/go-version/pull/87))
- ``Constraints``: Introduce ``Equals()`` and ``sort.Interface`` methods ([#88](https://github.com/hashicorp/go-version/pull/88))

# 1.3.0 (March 31, 2021)

Please note that CHANGELOG.md does not exist in the source code prior to this release.

#### FEATURES:

- Add ``Core`` function to return a version without prerelease or metadata ([#85](https://github.com/hashicorp/go-version/pull/85))

# 1.2.1 (June 17, 2020)

#### BUG FIXES:

- Prevent ``Version.Equal`` method from panicking on ``nil`` encounter ([#73](https://github.com/hashicorp/go-version/pull/73))

# 1.2.0 (April 23, 2019)

#### FEATURES:

- Add ``GreaterThanOrEqual`` and ``LessThanOrEqual`` helper methods ([#53](https://github.com/hashicorp/go-version/pull/53))

# 1.1.0 (Jan 07, 2019)

#### FEATURES:

- Add ``NewSemver`` constructor ([#45](https://github.com/hashicorp/go-version/pull/45))

# 1.0.0 (August 24, 2018)

Initial release.

procf provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package version

```
import (  
    "fmt"  
    "regexp"  
    "sort"  
    "strings"  
)
```

```

// Constraint represents a single constraint for a version, such as
// ">= 1.0".
type Constraint struct {
    f      constraintFunc
    op      operator
    check   *Version
    original string
}

func (c *Constraint) Equals(con *Constraint) bool {
    return c.op == con.op && c.check.Equal(con.check)
}

// Constraints is a slice of constraints. We make a custom type so that
// we can add methods to it.
type Constraints []*Constraint

type constraintFunc func(v, c *Version) bool

var constraintOperators map[string]constraintOperation

type constraintOperation struct {
    op operator
    f   constraintFunc
}

var constraintRegexp *regexp.Regexp

func init() {
    constraintOperators = map[string]constraintOperation{
        "": {op: equal, f: constraintEqual},
        "=": {op: equal, f: constraintEqual},
        "!=": {op: notEqual, f: constraintNotEqual},
        ">": {op: greaterThan, f: constraintGreaterThan},
        "<":
        {op: lessThan, f: constraintLessThan},
        ">=": {op: greaterThanEqual, f: constraintGreaterThanOrEqual},
        "<=": {op: lessThanEqual, f: constraintLessThanOrEqual},
        "~>": {op: pessimistic, f: constraintPessimistic},
    }

    ops := make([]string, 0, len(constraintOperators))
    for k := range constraintOperators {
        ops = append(ops, regexp.QuoteMeta(k))
    }

    constraintRegexp = regexp.MustCompile(fmt.Sprintf(

```



```

    `^\s*(%s)\s*(%s)\s*$`,
    strings.Join(ops, "|"),
    VersionRegexpRaw))
}

// NewConstraint will parse one or more constraints from the given
// constraint string. The string must be a comma-separated list of
// constraints.
func NewConstraint(v string) (Constraints, error) {
    vs := strings.Split(v, ",")
    result := make([]*Constraint, len(vs))
    for i, single := range vs {
        c, err := parseSingle(single)
        if err != nil {
            return nil, err
        }

        result[i] = c
    }

    return Constraints(result), nil
}

// MustConstraints is a helper that wraps a call to a function
//
// returning (Constraints, error) and panics if error is non-nil.
func MustConstraints(c Constraints, err error) Constraints {
    if err != nil {
        panic(err)
    }

    return c
}

// Check tests if a version satisfies all the constraints.
func (cs Constraints) Check(v *Version) bool {
    for _, c := range cs {
        if !c.Check(v) {
            return false
        }
    }

    return true
}

// Equals compares Constraints with other Constraints
// for equality. This may not represent logical equivalence
// of compared constraints.

```

```

// e.g. even though '>0.1,>0.2' is logically equivalent
// to '>0.2' it is *NOT* treated as equal.
//
// Missing operator is treated as equal to '=', whitespaces
// are ignored and constraints are sorted before comparison.
func (cs Constraints) Equals(c Constraints) bool {
    if len(cs) != len(c) {
        return false
    }

    // make copies to retain order of the original slices
    left := make(Constraints, len(cs))
    copy(left, cs)
    sort.Stable(left)
    right := make(Constraints, len(c))
    copy(right, c)
    sort.Stable(right)

    //
    compare sorted slices
    for i, con := range left {
        if !con.Equals(right[i]) {
            return false
        }
    }

    return true
}

func (cs Constraints) Len() int {
    return len(cs)
}

func (cs Constraints) Less(i, j int) bool {
    if cs[i].op < cs[j].op {
        return true
    }
    if cs[i].op > cs[j].op {
        return false
    }

    return cs[i].check.LessThan(cs[j].check)
}

func (cs Constraints) Swap(i, j int) {
    cs[i], cs[j] = cs[j], cs[i]
}

```

```

// Returns the string format of the constraints
func (cs Constraints) String() string {
    csStr := make([]string, len(cs))
    for i, c := range cs {
        csStr[i] = c.String()
    }

    return strings.Join(csStr, ",")
}

// Check tests if a constraint is validated by the given version.
func (c *Constraint) Check(v *Version) bool {
    return c.f(v, c.check)
}

// Prerelease returns true if the version underlying this constraint
// contains a prerelease field.
func (c *Constraint) Prerelease() bool {
    return len(c.check.Prerelease()) > 0
}

func (c *Constraint) String()
string {
    return c.original
}

func parseSingle(v string) (*Constraint, error) {
    matches := constraintRegexp.FindStringSubmatch(v)
    if matches == nil {
        return nil, fmt.Errorf("Malformed constraint: %s", v)
    }

    check, err := NewVersion(matches[2])
    if err != nil {
        return nil, err
    }

    cop := constraintOperators[matches[1]]

    return &Constraint{
        f:    cop.f,
        op:   cop.op,
        check: check,
        original: v,
    }, nil
}

func prereleaseCheck(v, c *Version) bool {

```

```

switch vPre, cPre := v.Prerelease() != "", c.Prerelease() != ""; {
case cPre && vPre:
    // A constraint with a pre-release can only match a pre-release version
    // with the same base segments.
    return v.equalSegments(c)

case !cPre && vPre:
    // A constraint without a pre-release can only match a version without a
    // pre-release.
    return false

case cPre && !vPre:
    // OK, except with the pessimistic operator
case !cPre && !vPre:
    // OK
    }
    return true
}

//-----
//
// Constraint functions
//-----

type operator rune

const (
    equal      operator = '='
    notEqual   operator = "
    greaterThan operator = '>'
    lessThan   operator = '<'
    greaterThanEqual operator = "
    lessThanEqual operator = "
    pessimistic operator = '~'
)

func constraintEqual(v, c *Version) bool {
    return v.Equal(c)
}

func constraintNotEqual(v, c *Version) bool {
    return !v.Equal(c)
}

func constraintGreaterThan(v, c *Version) bool {
    return prereleaseCheck(v, c) && v.Compare(c) == 1
}

```

```

func constraintLessThan(v, c *Version) bool {
    return prereleaseCheck(v, c) && v.Compare(c) == -1
}

func constraintGreaterThanOrEqual(v, c *Version) bool {
    return prereleaseCheck(v, c) && v.Compare(c) >= 0
}

func constraintLessThanOrEqual(v, c *Version) bool {
    return prereleaseCheck(v, c) && v.Compare(c) <= 0
}

func constraintPessimistic(v, c *Version) bool {
    // Using a pessimistic
    // constraint with a pre-release, restricts versions to pre-releases
    if !prereleaseCheck(v, c) || (c.Prerelease() != "" && v.Prerelease() == "") {
        return false
    }

    // If the version being checked is naturally less than the constraint, then there
    // is no way for the version to be valid against the constraint
    if v.LessThan(c) {
        return false
    }

    // We'll use this more than once, so grab the length now so it's a little cleaner
    // to write the later checks
    cs := len(c.segments)

    // If the version being checked has less specificity than the constraint, then there
    // is no way for the version to be valid against the constraint
    if cs > len(v.segments) {
        return false
    }

    // Check the segments in the constraint against those in the version. If the version
    // being checked, at any point, does not have the same values in each index of the
    // constraints segments, then it cannot be valid against the constraint.
    for i := 0; i < cs-1; i++ {
        if v.segments[i] != c.segments[i]
        {
            return false
        }
    }

    // Check the last part of the segment in the constraint. If the version segment at
    // this index is less than the constraints segment at this index, then it cannot
    // be valid against the constraint
    if c.segments[cs-1] > v.segments[cs-1] {

```

```

return false
}

// If nothing has rejected the version by now, it's valid
return true
}
version: 2
updates:
- package-ecosystem: "gomod"
  directory: "/"
  schedule:
    interval: "daily"
  labels: ["dependencies"]

- package-ecosystem: github-actions
  directory: /
  schedule:
    interval: monthly
  labels:
    - dependencies
  # only update HashiCorp actions, external actions managed by TSCCR
  allow:
    - dependency-name: hashicorp/*
  groups:
    github-actions-breaking:
      update-types:
        - major
    github-actions-backward-compatible:
      update-types:
        - minor
        - patch

```

Common libraries shared by Prometheus Go components.

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package version

```
import (  
    "fmt"  
    "reflect"  
    "sort"  
    "testing"  
)
```

```
func TestNewConstraint(t *testing.T) {  
    cases := []struct {  
        input string
```

```

count int
err bool
}{
{">= 1.2", 1, false},
{"1.0", 1, false},
{">= 1.x", 0, true},
{">= 1.2, < 1.0", 2, false},

// Out of bounds
{"11387778780781445675529500000000000000000000", 0, true},
}

for _, tc := range cases {
v, err := NewConstraint(tc.input)
if tc.err && err == nil {
t.Fatalf("expected error for input: %s", tc.input)
} else if !tc.err && err != nil {
t.Fatalf("error for input %s: %s", tc.input, err)
}

if len(v) != tc.count {
t.Fatalf("input: %s\nexpected len: %d\nactual: %d",
tc.input, tc.count, len(v))
}
}
}

func TestConstraintCheck(t *testing.T) {
cases := []struct {
constraint string
version string
check bool
}{
{">= 1.0, < 1.2", "1.1.5", true},
{"< 1.0, < 1.2", "1.1.5", false},
{"= 1.0", "1.1.5",
false},
{"= 1.0", "1.0.0", true},
{"1.0", "1.0.0", true},
{"~> 1.0", "2.0", false},
{"~> 1.0", "1.1", true},
{"~> 1.0", "1.2.3", true},
{"~> 1.0.0", "1.2.3", false},
{"~> 1.0.0", "1.0.7", true},
{"~> 1.0.0", "1.1.0", false},
{"~> 1.0.7", "1.0.4", false},
{"~> 1.0.7", "1.0.7", true},
{"~> 1.0.7", "1.0.8", true},

```

```

{"~> 1.0.7", "1.0.7.5", true},
{"~> 1.0.7", "1.0.6.99", false},
{"~> 1.0.7", "1.0.8.0", true},
{"~> 1.0.9.5", "1.0.9.5", true},
{"~> 1.0.9.5", "1.0.9.4", false},
{"~> 1.0.9.5", "1.0.9.6", true},
{"~> 1.0.9.5", "1.0.9.5.0", true},
{"~> 1.0.9.5", "1.0.9.5.1", true},
{"~> 2.0", "2.1.0-beta", false},
{"~> 2.1.0-a", "2.2.0", false},
{"~> 2.1.0-a", "2.1.0", false},
{"~> 2.1.0-a", "2.1.0-beta", true},
{"~> 2.1.0-a", "2.2.0-alpha", false},
{"> 2.0", "2.1.0-beta", false},
{">= 2.1.0-a", "2.1.0-beta", true},
{">= 2.1.0-a", "2.1.1-beta", false},
{">= 2.0.0", "2.1.0-beta", false},
{">= 2.1.0-a", "2.1.1", true},
{">= 2.1.0-a", "2.1.1-beta",
false},
{">= 2.1.0-a", "2.1.0", true},
{"<= 2.1.0-a", "2.0.0", true},
}

for _, tc := range cases {
    c, err := NewConstraint(tc.constraint)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    v, err := NewVersion(tc.version)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual := c.Check(v)
    expected := tc.check
    if actual != expected {
        t.Fatalf("Version: %s\nConstraint: %s\nExpected: %#v",
            tc.version, tc.constraint, expected)
    }
}

func TestConstraintPrerelease(t *testing.T) {
    cases := []struct {
        constraint string
        prerelease bool
    }

```



```

}{
    {"= 1.0", false},
    {"= 1.0-beta", true},
    {"~> 2.1.0", false},
    {"~> 2.1.0-dev", true},
    {"> 2.0", false},
    {">= 2.1.0-a", true},
}

for _, tc := range cases {
    c, err := parseSingle(tc.constraint)
    if err != nil {
        t.Fatalf("err: %s", err)
    }

    actual := c.Prerelease()
    expected := tc.prerelease
    if actual != expected {
        t.Fatalf("Constraint: %s\nExpected: %#v",
            tc.constraint, expected)
    }
}
}

```

```

func
TestConstraintEqual(t *testing.T) {
    cases := []struct {
        leftConstraint string
        rightConstraint string
        expectedEqual bool
    }{
        {
            "0.0.1",
            "0.0.1",
            true,
        },
        { // whitespaces
            " 0.0.1 ",
            "0.0.1",
            true,
        },
        { // equal op implied
            "=0.0.1 ",
            "0.0.1",
            true,
        },
        { // version difference
            "=0.0.1",

```

```

    "=0.0.2",
    false,
  },
  { // operator difference
    ">0.0.1",
    "=0.0.1",
    false,
  },
  { // different order
    ">0.1.0, <=1.0.0",
    "<=1.0.0, >0.1.0",
    true,
  },
}

for _, tc := range cases {
  leftCon, err := NewConstraint(tc.leftConstraint)
  if err != nil {
    t.Fatalf("err: %s", err)
  }
  rightCon, err := NewConstraint(tc.rightConstraint)
  if err != nil {
    t.Fatalf("err: %s", err)
  }

  actual := leftCon.Equals(rightCon)
  if actual != tc.expectedEqual {
    t.Fatalf("Constraints: %s vs %s\nExpected: %t\nActual: %t",
      tc.leftConstraint, tc.rightConstraint, tc.expectedEqual, actual)
  }
}

func TestConstraint_sort(t
*testing.T) {
  cases := []struct {
    constraint      string
    expectedConstraints string
  }{
    {
      ">= 0.1.0,< 1.12",
      "< 1.12,>= 0.1.0",
    },
    {
      "< 1.12,>= 0.1.0",
      "< 1.12,>= 0.1.0",
    },
  }
}

```

```

"< 1.12,>= 0.1.0,0.2.0",
"< 1.12,0.2.0,>= 0.1.0",
},
{
">1.0,>0.1.0,>0.3.0,>0.2.0",
">0.1.0,>0.2.0,>0.3.0,>1.0",
},
}

for i, tc := range cases {
t.Run(fmt.Sprintf("%d", i), func(t *testing.T) {
c, err := NewConstraint(tc.constraint)
if err != nil {
t.Fatalf("err: %s", err)
}

sort.Sort(c)

actual := c.String()

if !reflect.DeepEqual(actual, tc.expectedConstraints) {
t.Fatalf("unexpected order\nexpected: %#v\nactual: %#v",
tc.expectedConstraints, actual)
}
})
}

func TestConstraintsString(t *testing.T) {
cases := []struct {
constraint string
result string
}{
{">= 1.0, < 1.2", ""},
{"~> 1.0.7", ""},
}

for _, tc := range cases {
c, err := NewConstraint(tc.constraint)
if err != nil {
t.Fatalf("err:
%s", err)
}

actual := c.String()
expected := tc.result
if expected == "" {
expected = tc.constraint

```

```

}

if actual != expected {
    t.Fatalf("Constraint: %s\nExpected: %#v\nActual: %s",
        tc.constraint, expected, actual)
}
}
}

```

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Protocol Buffers for Go with Gadgets



Go support for Protocol Buffers - Google's data interchange format

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package version

```
import (  
    "bytes"  
    "database/sql/driver"  
    "fmt"  
    "regexp"
```

```

"strconv"
"strings"
)

// The compiled regular expression used to test the validity of a version.
var (
    versionRegex *regexp.Regexp
    semverRegex *regexp.Regexp
)

// The raw regular expression string used for testing the validity
// of a version.
const (
    VersionRegexRaw string = `v?([0-9]+(\.[0-9]+)*)` +
        `(-([0-9]+[0-9A-Za-z\~]*\.[0-9A-Za-z\~]+)*)(-?([A-Za-z\~]+[0-9A-Za-z\~]*\.[0-9A-Za-z\~]+*))` +
        `(\+([0-9A-Za-z\~]+(\.[0-9A-Za-z\~]+)*))` +
        `?`

    // SemverRegexRaw requires a separator between version and prerelease
    SemverRegexRaw string = `v?([0-9]+(\.[0-9]+)*)` +
        `(-([0-9]+[0-9A-Za-z\~]*\.[0-9A-Za-z\~]+)*)(-([A-Za-z\~]+[0-9A-Za-z\~]*\.[0-9A-Za-z\~]+*))` +
        `(\+([0-9A-Za-z\~]+(\.[0-9A-Za-z\~]+)*))` +
        `?`
)

// Version represents a single version.
type Version struct {
    metadata string
    pre
    string
    segments []int64
    si      int
    original string
}

func init() {
    versionRegex = regexp.MustCompile("^" + VersionRegexRaw + "$")
    semverRegex = regexp.MustCompile("^" + SemverRegexRaw + "$")
}

// NewVersion parses the given version and returns a new
// Version.
func NewVersion(v string) (*Version, error) {
    return newVersion(v, versionRegex)
}

// NewSemver parses the given version and returns a new
// Version that adheres strictly to SemVer specs

```

```

// https://semver.org/
func NewSemver(v string) (*Version, error) {
    return newVersion(v, semverRegexp)
}

func newVersion(v string, pattern *regexp.Regexp) (*Version, error) {
    matches := pattern.FindStringSubmatch(v)
    if matches == nil {
        return nil, fmt.Errorf("Malformed version: %s", v)
    }
    segmentsStr := strings.Split(matches[1], ".")
    segments := make([]int64, len(segmentsStr))
    for i, str := range segmentsStr {
        val, err := strconv.ParseInt(str, 10, 64)
        if err != nil {
            return nil, fmt.Errorf(
                "Error parsing version:
%s", err)
        }

        segments[i] = val
    }

    // Even though we could support more than three segments, if we
    // got less than three, pad it with 0s. This is to cover the basic
    // default usecase of semver, which is MAJOR.MINOR.PATCH at the minimum
    for i := len(segments); i < 3; i++ {
        segments = append(segments, 0)
    }

    pre := matches[7]
    if pre == "" {
        pre = matches[4]
    }

    return &Version{
        metadata: matches[10],
        pre:      pre,
        segments: segments,
        si:       len(segmentsStr),
        original: v,
    }, nil
}

// Must is a helper that wraps a call to a function returning (*Version, error)
// and panics if error is non-nil.
func Must(v *Version, err error) *Version {
    if err != nil {

```

```

    panic(err)
}

return v
}

// Compare compares this version to another version. This
// returns -1, 0, or 1 if this version is smaller, equal,
// or larger than the other version, respectively.
//
// If you want boolean results, use the LessThan, Equal,
// GreaterThan, GreaterThanOrEqualTo or LessThanOrEqualTo
// methods.
func (v *Version) Compare(other *Version) int {
    // A quick, efficient equality check
    if v.String() == other.String() {
        return 0
    }

    // If the segments are the same, we must compare on prerelease info
    if v.equalSegments(other) {
        preSelf := v.Prerelease()
        preOther := other.Prerelease()
        if preSelf == "" && preOther == "" {
            return 0
        }
        if preSelf == "" {
            return 1
        }
        if preOther == "" {
            return -1
        }
    }

    return comparePrereleases(preSelf, preOther)
}

segmentsSelf := v.Segments64()
segmentsOther := other.Segments64()
// Get the highest specificity (hS), or if they're equal, just use segmentSelf length
lenSelf := len(segmentsSelf)
lenOther := len(segmentsOther)
hS := lenSelf
if lenSelf < lenOther {
    hS = lenOther
}
// Compare the segments
// Because a constraint could have more/less specificity than the version it's
// checking, we need to account for a lopsided or jagged comparison

```

```

for i := 0; i < hS; i++ {
    if i > lenSelf-1 {
        //
    }
    This means Self had the lower specificity
    // Check to see if the remaining segments in Other are all zeros
    if !allZero(segmentsOther[i:]) {
        // if not, it means that Other has to be greater than Self
        return -1
    }
    break
} else if i > lenOther-1 {
    // this means Other had the lower specificity
    // Check to see if the remaining segments in Self are all zeros -
    if !allZero(segmentsSelf[i:]) {
        // if not, it means that Self has to be greater than Other
        return 1
    }
    break
}
lhs := segmentsSelf[i]
rhs := segmentsOther[i]
if lhs == rhs {
    continue
} else if lhs < rhs {
    return -1
}
// Otherwis, rhs was > lhs, they're not equal
return 1
}

// if we got this far, they're equal
return 0
}

func (v *Version) equalSegments(other *Version) bool {
    segmentsSelf := v.Segments64()
    segmentsOther := other.Segments64()

    if len(segmentsSelf) != len(segmentsOther) {
        return false
    }
    for i, v := range segmentsSelf {
        if v != segmentsOther[i]
        {
            return false
        }
    }
    return true
}

```

```

}

func allZero(segs []int64) bool {
    for _, s := range segs {
        if s != 0 {
            return false
        }
    }
    return true
}

func comparePart(preSelf string, preOther string) int {
    if preSelf == preOther {
        return 0
    }

    var selfInt int64
    selfNumeric := true
    selfInt, err := strconv.ParseInt(preSelf, 10, 64)
    if err != nil {
        selfNumeric = false
    }

    var otherInt int64
    otherNumeric := true
    otherInt, err = strconv.ParseInt(preOther, 10, 64)
    if err != nil {
        otherNumeric = false
    }

    // if a part is empty, we use the other to decide
    if preSelf == "" {
        if otherNumeric {
            return -1
        }
        return 1
    }

    if preOther == "" {
        if selfNumeric {
            return 1
        }
        return -1
    }

    if selfNumeric && !otherNumeric {
        return -1
    } else if !selfNumeric && otherNumeric {

```

```

    return 1
} else if !selfNumeric && !otherNumeric && preSelf > preOther {
    return 1
} else if selfInt > otherInt {
    return 1
}

return -1
}

func comparePrereleases(v string, other string)
int {
    // the same pre release!
    if v == other {
        return 0
    }

    // split both pre releases for analyse their parts
    selfPreReleaseMeta := strings.Split(v, ".")
    otherPreReleaseMeta := strings.Split(other, ".")

    selfPreReleaseLen := len(selfPreReleaseMeta)
    otherPreReleaseLen := len(otherPreReleaseMeta)

    biggestLen := otherPreReleaseLen
    if selfPreReleaseLen > otherPreReleaseLen {
        biggestLen = selfPreReleaseLen
    }

    // loop for parts to find the first difference
    for i := 0; i < biggestLen; i = i + 1 {
        partSelfPre := ""
        if i < selfPreReleaseLen {
            partSelfPre = selfPreReleaseMeta[i]
        }

        partOtherPre := ""
        if i < otherPreReleaseLen {
            partOtherPre = otherPreReleaseMeta[i]
        }

        compare := comparePart(partSelfPre, partOtherPre)
        // if parts are equals, continue the loop
        if compare != 0 {
            return compare
        }
    }
}

```



```

return 0
}

// Core returns a new version constructed from only the MAJOR.MINOR.PATCH
// segments of the version, without prerelease or metadata.
func
(v *Version) Core() *Version {
    segments := v.Segments64()
    segmentsOnly := fmt.Sprintf("%d.%d.%d", segments[0], segments[1], segments[2])
    return Must(NewVersion(segmentsOnly))
}

// Equal tests if two versions are equal.
func (v *Version) Equal(o *Version) bool {
    if v == nil || o == nil {
        return v == o
    }

    return v.Compare(o) == 0
}

// GreaterThan tests if this version is greater than another version.
func (v *Version) GreaterThan(o *Version) bool {
    return v.Compare(o) > 0
}

// GreaterThanOrEqualTo tests if this version is greater than or equal to another version.
func (v *Version) GreaterThanOrEqualTo(o *Version) bool {
    return v.Compare(o) >= 0
}

// LessThan tests if this version is less than another version.
func (v *Version) LessThan(o *Version) bool {
    return v.Compare(o) < 0
}

// LessThanOrEqualTo tests if this version is less than or equal to another version.
func (v *Version) LessThanOrEqualTo(o *Version) bool {
    return v.Compare(o) <= 0
}

// Metadata returns any metadata
// that was part of the version
// string.
//
// Metadata is anything that comes after the "+" in the version.
// For example, with "1.2.3+beta", the metadata is "beta".
func (v *Version) Metadata() string {

```

```

return v.metadata
}

// Prerelease returns any prerelease data that is part of the version,
// or blank if there is no prerelease data.
//
// Prerelease information is anything that comes after the "-" in the
// version (but before any metadata). For example, with "1.2.3-beta",
// the prerelease information is "beta".
func (v *Version) Prerelease() string {
    return v.pre
}

// Segments returns the numeric segments of the version as a slice of ints.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments() []int {
    segmentSlice := make([]int, len(v.segments))
    for i, v := range v.segments {
        segmentSlice[i] = int(v)
    }
    return segmentSlice
}

// Segments64 returns the
// numeric segments of the version as a slice of int64s.
//
// This excludes any metadata or pre-release information. For example,
// for a version "1.2.3-beta", segments will return a slice of
// 1, 2, 3.
func (v *Version) Segments64() []int64 {
    result := make([]int64, len(v.segments))
    copy(result, v.segments)
    return result
}

// String returns the full version string included pre-release
// and metadata information.
//
// This value is rebuilt according to the parsed segments and other
// information. Therefore, ambiguities in the version string such as
// prefixed zeroes (1.04.0 => 1.4.0), `v` prefix (v1.0.0 => 1.0.0), and
// missing parts (1.0 => 1.0.0) will be made into a canonicalized form
// as shown in the parenthesized examples.
func (v *Version) String() string {
    var buf bytes.Buffer

```

```

fmtParts := make([]string, len(v.segments))
for i, s := range v.segments {
    // We can ignore err here since we've pre-parsed the values in segments
    str := strconv.FormatInt(s, 10)
    fmtParts[i]
    = str
}
fmt.Fprintf(&buf, strings.Join(fmtParts, "."))
if v.pre != "" {
    fmt.Fprintf(&buf, "-%s", v.pre)
}
if v.metadata != "" {
    fmt.Fprintf(&buf, "+%s", v.metadata)
}

return buf.String()
}

// Original returns the original parsed version as-is, including any
// potential whitespace, `v` prefix, etc.
func (v *Version) Original() string {
    return v.original
}

// UnmarshalText implements encoding.TextUnmarshaler interface.
func (v *Version) UnmarshalText(b []byte) error {
    temp, err := NewVersion(string(b))
    if err != nil {
        return err
    }

    *v = *temp

    return nil
}

// MarshalText implements encoding.TextMarshaler interface.
func (v *Version) MarshalText() ([]byte, error) {
    return []byte(v.String()), nil
}

// Scan implements the sql.Scanner interface.
func (v *Version) Scan(src interface{}) error {
    switch src := src.(type) {
    case string:
        return v.UnmarshalText([]byte(src))
    case nil:
        return nil
    }
}

```

```

default:
    return fmt.Errorf("cannot scan %T as Version", src)
}
}

//
Value implements the driver.Valuer interface.
func (v *Version) Value() (driver.Value, error) {
    return v.String(), nil
}
}
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```

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# 1.277 easyjson 0.9.0

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## 1.278 fwd 1.1.3-0.20240916144458-20a13a1f6b7c

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## 1.279 reflect2 1.0.2

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# 1.283 multierr 1.11.0

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## 1.284 zap-exp 1.27.0

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## 1.286 rpc 2.0.3

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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## 1.298 xattr 0.4.10

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## 1.299 colorjson 1.0.8

### 1.299.1 Available under license :

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Found in path(s):

- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/scanner.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/fold.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/tables.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/stream.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/tags.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/encode.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/decode.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/colors.go
- \* /colorjson-1-0-8-tar-gz/colorjson-1.0.8/indent.go

## 1.300 go-osc52 2.0.1

### 1.300.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnll.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnll.me>
pkgname=bsd-compat-headers
pkgver=0.7.2
pkgrel=6
pkgdesc="BSD compatibility headers (cdefs, queue, tree)"
url="https://gitlab.alpinelinux.org/alpine/aports"
arch="noarch"
license="BSD-2-Clause AND BSD-3-Clause"
source="
cdefs.h
queue.h
```

```

tree.h
"
builddir="$srcdir"
options="!check" # just headers

package() {
    mkdir -p "$pkgdir"
    install -Dm644 -t "$pkgdir"/usr/include/sys \
        cdefs.h queue.h tree.h
}
sha512sums="
37c8fc73c7aea7b490f7850927e2bb91d12137c9e59e22c084146d515696dbc7973b5de92f4c987ba080dd2502ba8312
7006442c3f019b6447a620c0cae73178 cdefs.h
2f0d5e6e4dc3350285cf17009265dddcbe12431c111868eea39bc8cb038ab7c1f2acacbb21735c4e9d4a1fd106a8fc0f86
11ea33987d4faba37dde5ce6da0750 queue.h
d9ac210d81feb8ad2655bc80fb065d3fe20ae4417b32b4a1711e6738a4870140005c13373b5d1846ef3ce5ae6da45f2da
cef2092881eded0a2e94f6a07752ef3 tree.h
"

```

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The Kohonen neural network code for color optimization was written by Anthony Dekker.

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The X-Spline code was written Carole Blanc (blanc@labri.u-bordeaux.fr) and Christophe Schlick (schlick@labri.u-bordeaux.fr) starting from an initial implementation done by C. Feuille, S. Grosbois, L. Maziere and L. Minihot as a student practice (Universite Bordeaux, France). For additional information about X-splines, see:

"X-Splines: A Spline Model Designed for the End User" by C. Blanc and C. Schlick, Proceedings of SIGGRAPH'95  
<http://dept-info.labri.u-bordeaux.fr/~schlick/DOC/sig1.html>



```

# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.22
pkgrel=1
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check" # no test suite
license="CC-BY-3.0"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
    subpackages="$subpackages $pkgname-$type:_subpkg"
done

package() {
    mkdir -p "$pkgdir"
}

_subpkg() {
    local type=${subpkgname/$pkgname-/}
    pkgdesc="$pkgdesc ($type)"
    install_if="$pkgname=$pkgver-r$pkgrel"
    mkdir -p "$subpkgdir"/usr/share/spdx
    cp -r "$builddir"/$type "$subpkgdir"/usr/share/spdx/
}

list() {
    pkgdesc="$pkgdesc (licence list)"
    mkdir -p "$subpkgdir"/usr/share/spdx
    local i; for i in "$builddir"/text/*.txt; do
        local
        license=${i##*/}
        echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
    done
}

sha512sums="
b213fe66699770d75a4c994a01a5c08325751423516c2fb871088a47e7e7ce605736064f5ce3a63dc1d3c462271832db
7bc464ac968df1888f9823787964c786 license-list-data-3.22.tar.gz
"

# Contributor: Maxim Karasev <begs@disroot.org>
# Maintainer: mio <miyopan@e.email>

```

```

pkgname=bsd-games
pkgver=3.3
pkgrel=1
pkgdesc="traditional text mode games from BSD"
url="https://bsd-games.sourceforge.io/"
arch="all"
license="BSD-3-Clause"
install="$pkgname.post-install"
makedepends="ncurses-dev coreutils" # configure causes busybox expr error
subpackages="$pkgname-doc"
source="https://sourceforge.net/projects/bsd-games/files/bsd-games-$pkgver.tar.gz"
options="!check" # no tests

build() {
    # some GNU autoconf options are ignored, but it works
    ./configure \
        --build=$CBUILD \
        --host=$CHOST \
        --prefix=/usr \
        --sysconfdir=/etc \
        --mandir=/usr/share/man \
        --localstatedir=/var/lib # it really shouldn't be in /var
    make
}

package() {
    make DESTDIR="$pkgdir" install
    install -Dm644 LICENSE "$pkgdir"/usr/share/licenses/bsd-games/LICENSE
}

sha512sums="
aaf36d09d4fe68514a5c279063d7e77a9a9a84c447037cba974b29faa07eb80c2aab2379d0699c196b5c27ffe1b2bb2c6
8d3390143e0e62d5e3d210ccfb61294
    bsd-games-3.3.tar.gz
"

# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py3-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.4
pkgrel=3
pkgdesc="Extension for flake8 which checks for copyrights"
options="!check" # No testsuite
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="py3-flake8 py3-setuptools"
makedepends="py3-gpep517 py3-wheel"

```

```

subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

replaces="py-flake8-copyright"          # Backwards compatibility
provides="py-flake8-copyright=$pkgver-r$pkgrel" # Backwards compatibility

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

package() {
    gpep517 install-wheel --destdir "$pkgdir" \
        .dist/*.whl
}

sha512sums="
a6ab47e1bb715618f075c51f398e18180404871b3b0faf1c2d30701d5203db6bc23771bf22ffb5bafcd8ee856b9b64237
b316bd503ae7dceed6ca284ccd5a74d
flake8-copyright-0.2.4.tar.gz
"

# Maintainer: fossdd <fossdd@pwned.life>
pkgname=cargo-license
pkgver=0.6.1
pkgrel=1
pkgdesc="Cargo subcommand to see license of dependencies"
url="https://github.com/onur/cargo-license"
arch="all"
license="MIT"
makedepends="cargo cargo-auditable"
source="$pkgname-$pkgver.tar.gz::https://crates.io/api/v1/crates/cargo-license/$pkgver/download"

prepare() {
    default_prepare

    cargo fetch --target="$CTARGET" --locked
}

build() {
    cargo auditable build --release --frozen
}

check() {
    cargo test --frozen
}

```

```

package() {
    install -Dm755 target/release/cargo-license -t "$pkgdir"/usr/bin
}

sha512sums="
36215145e79965be090ae2f5ce6f5eb208465eb67a94c26bed1fe70a131c46c6dc35695e30852759b7366883fbc3caf00
272d796ac634f0a5e1d49232b6b29d5  cargo-license-0.6.1.tar.gz
"

# Contributor: Dhruvin Gandhi <contact@dhruvin.dev>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license-expression
pkgver=30.3.0
pkgrel=1
pkgdesc="Library to parse, compare, simplify and normalize license expressions"
url="https://github.com/nexB/license-expression"
arch="noarch"
license="Apache-2.0"
depends="python3 py3-boolean.py"
makedepends="py3-setuptools py3-setuptools_scm py3-gpep517 py3-wheel"
checkdepends="py3-pytest py3-pytest-xdist"
subpackages="$pkgname-pyc"
source="https://files.pythonhosted.org/packages/source/l/_pkgname/_pkgname-$pkgver.tar.gz"
builddir="$srcdir/$_pkgname-$pkgver"

build() {
    gpep517 build-wheel \
        --wheel-dir .dist \
        --output-fd 3 3>&1 >&2
}

check() {
    python3 -m venv --clear --without-pip --system-site-packages .testenv
    .testenv/bin/python3 -m installer .dist/*.whl
    .testenv/bin/python3 -m pytest
}

package() {
    python3 -m installer -d "$pkgdir" \
        .dist/*.whl
}

sha512sums="
3fe4ac8830085fe38d8ee713a332047941b2a7a8ff5f31810b124c5903335a8343a222926aefe000da66a49b4d6f8b934
af3cc350448b075a4ec6aa1fdb51aef
    license-expression-30.3.0.tar.gz
"

```

```

# Automatically generated by apkbuidl-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=9
#_pkgreal is used by apkbuidl-cpan to find modules at MetaCpan
_pkgreal=BSD-Resource
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="https://metacpan.org/release/BSD-Resource/"
arch="all"
license="Artistic-2.0 OR LGPL-2.0"
depends="perl"
makedepends="perl-dev"
subpackages="$pkgname-doc"
source="https://cpan.metacpan.org/authors/id/J/JH/JHI/BSD-Resource-$pkgver.tar.gz"
builddir="$srcdir/${_pkgreal}-$pkgver"

build() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    PERL_MM_USE_DEFAULT=1 perl -I. Makefile.PL \
        INSTALLDIRS=vendor \
        NO_PACKLIST=1 \
        NO_PERLLOCAL=1
    make
}

check() {
    export CFLAGS=$(perl -MConfig -E 'say $Config{ccflags}')
    make test
}

package() {
    make DESTDIR="$pkgdir" install
}

sha512sums="
d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16dfa5417f663b
8065ba65f4fea16dc9262728b3b6b85
    BSD-Resource-1.2911.tar.gz
"

Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

```

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[vintagedreamworks@hotmail.com](mailto:vintagedreamworks@hotmail.com)

<http://www.geocities.com/SiliconValley/Campus/8645/index.html>

<http://members.nbc.com/silicon39/>

<http://www.mp3.com/silicon39>

<https://analoguesque.x10host.com/>

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# Maintainer: Natanael Copa <[ncopa@alpinelinux.org](mailto:ncopa@alpinelinux.org)>

pkgname=libart-ldpl

pkgver=2.3.21

pkgrel=8

pkgdesc="A library for high-performance 2D graphics"

url="https://www.levien.com/libart/"

arch="all"

options="!check" # No test suite.

license="LGPL-2.0-or-later"

subpackages="\$pkgname-dev"

source="https://download.gnome.org/sources/libart\_ldpl/2.3/libart\_ldpl-\$pkgver.tar.bz2"

"

```
builddir="$srcdir"/libart_lgpl-$pkgver
```

```
prepare() {  
    update_config_sub  
    default_prepare  
}
```

```
build() {  
    ./configure \  
    --build=$CBUILD \  
    --host=$CHOST \  
    --prefix=/usr  
    make  
}
```

```
package() {  
    make DESTDIR="$pkgdir" install  
}
```

```
sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171ff9ae326af1b133725beba28f7e7  
6654309e001aee9bace727b5b4c8589405256a3c020 libart_lgpl-2.3.21.tar.bz2"  
mini_sendmail - accept email on behalf of real sendmail
```

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# 1.301 mousetrap 1.1.0

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# 1.302 blackmagic 1.0.2

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## 1.303 minisign 0.3.0

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## 1.304 httpcc 1.0.1

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# 1.308 minio-cli 1.24.2

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## 1.309 bubbles 0.20.0

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# 1.310 go-elasticsearch 7.17.10

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//
// Code generated from specification version 7.17.10: DO NOT EDIT
```

package esapi

```
import (
    "context"
    "io"
    "net/http"
    "strconv"
    "strings"
)
```

```
func newLicensePostFunc(t Transport) LicensePost {
    return func(o
...func(*LicensePostRequest)) (*Response, error) {
    var r = LicensePostRequest{ }
    for _, f := range o {
        f(&r)
    }
    return r.Do(r.ctx, t)
}
}
```

```
// ----- API Definition -----
```

```

// LicensePost - Updates the license for the cluster.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/update-license.html.
type LicensePost func(o ...func(*LicensePostRequest)) (*Response, error)

// LicensePostRequest configures the License Post API request.
type LicensePostRequest struct {
    Body io.Reader

    Acknowledge *bool

    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "PUT"

    path.Grow(len("/_license"))
    path.WriteString("/_license")

    params
    = make(map[string]string)

    if r.Acknowledge != nil {
        params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
    }

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

```

```

}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), r.Body)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if r.Body != nil && req.Header.Get(headerContentType) == "" {
    req.Header[headerContentType] = headerContentTypeJSON
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err
:= transport.Perform(req)
if err != nil {
    return nil, err
}

```



```

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePost) WithContext(v context.Context) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.ctx = v
    }
}

// WithBody - licenses to be installed.
func (f LicensePost) WithBody(v io.Reader) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Body = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePost) WithAcknowledge(v bool) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Acknowledge = &v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePost) WithPretty() func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
func
(f LicensePost) WithHuman() func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePost) WithErrorTrace() func(*LicensePostRequest) {

```

```

return func(r *LicensePostRequest) {
    r.ErrorTrace = true
}
}

// WithFilterPath filters the properties of the response body.
func (f LicensePost) WithFilterPath(v ...string) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePost) WithHeader(h map[string]string) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePost) WithOpaqueID(s string) func(*LicensePostRequest) {
    return func(r *LicensePostRequest) {
        {
            if r.Header == nil {
                r.Header = make(http.Header)
            }
            r.Header.Set("X-Opaque-Id", s)
        }
    }
}
name: License headers

```

on: [ pull\_request ]

jobs:

build:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v2

- name: Check license headers

run: |

```

./github/check-license-headers.sh
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//
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package esapi

import (
    "context"
    "net/http"
    "strings"
)

func newLicenseGetBasicStatusFunc(t Transport) LicenseGetBasicStatus {
    return
    func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error) {
        var r = LicenseGetBasicStatusRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----

// LicenseGetBasicStatus - Retrieves information about the status of the basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-basic-status.html.
type LicenseGetBasicStatus func(o ...func(*LicenseGetBasicStatusRequest)) (*Response, error)

// LicenseGetBasicStatusRequest configures the License Get Basic Status API request.
type LicenseGetBasicStatusRequest struct {

```

```

Pretty    bool
Human     bool
ErrorTrace bool
FilterPath []string

Header http.Header

ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetBasicStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "GET"

    path.Grow(len("/_license/basic_status"))
    path.WriteString("/_license/basic_status")

    params = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }

    if len(r.FilterPath) > 0 {
        params["filter_path"] = strings.Join(r.FilterPath, ",")
    }

    req, err := newRequest(method, path.String(), nil)
    if err != nil {
        return nil, err
    }

    if len(params) > 0 {

```

```

q := req.URL.Query()
for k, v := range params {
    q.Set(k, v)
}
req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:
        res.Body,
    Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetBasicStatus) WithContext(v context.Context) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.ctx = v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetBasicStatus) WithPretty() func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {

```

```

    r.Pretty = true
}
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetBasicStatus) WithHuman() func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetBasicStatus) WithErrorTrace() func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the
response body.
func (f LicenseGetBasicStatus) WithFilterPath(v ...string) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetBasicStatus) WithHeader(h map[string]string) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetBasicStatus) WithOpaqueID(s string) func(*LicenseGetBasicStatusRequest) {
    return func(r *LicenseGetBasicStatusRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

```

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//
// Code generated from specification version 7.17.10: DO NOT EDIT
```

```
package esapi
```

```
import (
    "context"
    "net/http"
    "strconv"
    "strings"
)

func newLicenseGetFunc(t Transport) LicenseGet {
    return func(o ...func(*LicenseGetRequest))
```

```

(*Response, error) {
    var r = LicenseGetRequest{}
    for _, f := range o {
        f(&r)
    }
    return r.Do(r.ctx, t)
}
}

// ----- API Definition -----

// LicenseGet - Retrieves licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-license.html.
type LicenseGet func(o ...func(*LicenseGetRequest)) (*Response, error)

// LicenseGetRequest configures the License Get API request.
type LicenseGetRequest struct {
    AcceptEnterprise *bool
    Local           *bool

    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "GET"

    path.Grow(len("/_license"))
    path.WriteString("/_license")

    params
    = make(map[string]string)

    if r.AcceptEnterprise != nil {

```

```

params["accept_enterprise"] = strconv.FormatBool(*r.AcceptEnterprise)
}

if r.Local != nil {
params["local"] = strconv.FormatBool(*r.Local)
}

if r.Pretty {
params["pretty"] = "true"
}

if r.Human {
params["human"] = "true"
}

if r.ErrorTrace {
params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
return nil, err
}

if len(params) > 0 {
q := req.URL.Query()
for k, v := range params {
q.Set(k, v)
}
req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
if len(req.Header) == 0 {
req.Header = r.Header
} else {
for k, vv := range r.Header {
for _, v := range vv {
req.Header.Add(k, v)
}
}
}
}
}

```

```

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:   res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicenseGet) WithContext(v context.Context) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.ctx = v
    }
}

// WithAcceptEnterprise - if the active license is an enterprise license, return type as 'enterprise' (default: false).
func (f LicenseGet) WithAcceptEnterprise(v bool) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.AcceptEnterprise = &v
    }
}

// WithLocal - return local information, do not retrieve the state from master node (default: false).
func (f LicenseGet) WithLocal(v bool) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.Local = &v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGet) WithPretty() func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.Pretty = true
    }
}

//

```

```

WithHuman makes statistical values human-readable.
func (f LicenseGet) WithHuman() func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGet) WithErrorTrace() func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
func (f LicenseGet) WithFilterPath(v ...string) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGet) WithHeader(h map[string]string) func(*LicenseGetRequest) {
    return func(r *LicenseGetRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGet) WithOpaqueID(s string) func(*LicenseGetRequest) {
    {
        return func(r *LicenseGetRequest) {
            if r.Header == nil {
                r.Header = make(http.Header)
            }
            r.Header.Set("X-Opaque-Id", s)
        }
    }
}

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//
// Code generated from specification version 7.17.10: DO NOT EDIT
```

```
package esapi
```

```
import (
    "context"
    "net/http"
    "strings"
)
```

```
func newLicenseDeleteFunc(t Transport) LicenseDelete {
    return func(o ...func(*LicenseDeleteRequest))
        (*Response, error) {
            var r = LicenseDeleteRequest{ }
            for _, f := range o {
                f(&r)
            }
            return r.Do(r.ctx, t)
        }
}
```



```
// ----- API Definition -----

// LicenseDelete - Deletes licensing information for the cluster
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/delete-license.html.
type LicenseDelete func(o ...func(*LicenseDeleteRequest)) (*Response, error)

// LicenseDeleteRequest configures the License Delete API request.
type LicenseDeleteRequest struct {
    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseDeleteRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
        params  map[string]string
    )

    method = "DELETE"

    path.Grow(len("/_license"))
    path.WriteString("/_license")

    params
    = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }
}
```

```

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

```

```

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

```

```

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

```

```

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

```

```

if ctx != nil {
    req = req.WithContext(ctx)
}

```

```

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

```

```

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:    res.Header,
}

```

```

return &response, nil
}

```

// WithContext sets the request context.

```

func
(f LicenseDelete) WithContext(v context.Context) func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.ctx = v
}
}

// WithPretty makes the response body pretty-printed.
func (f LicenseDelete) WithPretty() func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.Pretty = true
}
}

// WithHuman makes statistical values human-readable.
func (f LicenseDelete) WithHuman() func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.Human = true
}
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseDelete) WithErrorTrace() func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.ErrorTrace = true
}
}

// WithFilterPath filters the properties of the response body.
func (f LicenseDelete) WithFilterPath(v ...string) func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    r.FilterPath = v
}
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseDelete)
WithHeader(h map[string]string) func(*LicenseDeleteRequest) {
return func(r *LicenseDeleteRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    for k, v := range h {
        r.Header.Add(k, v)
    }
}
}

```

```
// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseDelete) WithOpaqueID(s string) func(*LicenseDeleteRequest) {
    return func(r *LicenseDeleteRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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//
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```

```
package esapi
```

```
import (
    "context"
    "net/http"
    "strconv"
    "strings"
)
```

```
func newLicensePostStartTrialFunc(t Transport) LicensePostStartTrial
{
    return func(o ...func(*LicensePostStartTrialRequest)) (*Response, error) {
        var r = LicensePostStartTrialRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}
```

```
// ---- API Definition -----

// LicensePostStartTrial - starts a limited time trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-trial.html.
type LicensePostStartTrial func(o ...func(*LicensePostStartTrialRequest)) (*Response, error)

// LicensePostStartTrialRequest configures the License Post Start Trial API request.
type LicensePostStartTrialRequest struct {
    Acknowledge *bool
    DocumentType string

    Pretty bool
    Human bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartTrialRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method
        string
        path strings.Builder
        params map[string]string
    )

    method = "POST"

    path.Grow(len("/_license/start_trial"))
    path.WriteString("/_license/start_trial")

    params = make(map[string]string)

    if r.Acknowledge != nil {
        params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
    }

    if r.DocumentType != "" {
        params["type"] = r.DocumentType
    }

    if r.Pretty {
        params["pretty"] = "true"
    }
}
```

```

}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if
ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

```

```

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartTrial) WithContext(v context.Context) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.ctx = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartTrial) WithAcknowledge(v bool) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.Acknowledge = &v
    }
}

// WithDocumentType - the type of trial license to generate (default: "trial").
func (f LicensePostStartTrial) WithDocumentType(v string) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.DocumentType = v
    }
}

// WithPretty
    makes the response body pretty-printed.
func (f LicensePostStartTrial) WithPretty() func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
func (f LicensePostStartTrial) WithHuman() func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartTrial) WithErrorTrace() func(*LicensePostStartTrialRequest) {

```

```

return func(r *LicensePostStartTrialRequest) {
    r.ErrorTrace = true
}
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartTrial) WithFilterPath(v ...string) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartTrial) WithHeader(h map[string]string) func(*LicensePostStartTrialRequest)
{
    return func(r *LicensePostStartTrialRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartTrial) WithOpaqueID(s string) func(*LicensePostStartTrialRequest) {
    return func(r *LicensePostStartTrialRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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```



```

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//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
    "context"
    "net/http"
    "strings"
)

func newLicenseGetTrialStatusFunc(t Transport) LicenseGetTrialStatus {
    return
    func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error) {
        var r = LicenseGetTrialStatusRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----

// LicenseGetTrialStatus - Retrieves information about the status of the trial license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/get-trial-status.html.
type LicenseGetTrialStatus func(o ...func(*LicenseGetTrialStatusRequest)) (*Response, error)

// LicenseGetTrialStatusRequest configures the License Get Trial Status API request.
type LicenseGetTrialStatusRequest struct {
    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicenseGetTrialStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path    strings.Builder
    )

```

```

    params
    map[string]string
)

method = "GET"

path.Grow(len("/_license/trial_status"))
path.WriteString("/_license/trial_status")

params = make(map[string]string)

if r.Pretty {
    params["pretty"] = "true"
}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

```

```

    }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:
        res.Body,
    Header:    res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicenseGetTrialStatus) WithContext(v context.Context) func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.ctx = v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicenseGetTrialStatus) WithPretty() func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
func (f LicenseGetTrialStatus) WithHuman() func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicenseGetTrialStatus) WithErrorTrace() func(*LicenseGetTrialStatusRequest) {
    return func(r *LicenseGetTrialStatusRequest) {
        r.ErrorTrace = true
    }
}

```

```

}
}

// WithFilterPath filters the properties of the
response body.
func (f LicenseGetTrialStatus) WithFilterPath(v ...string) func(*LicenseGetTrialStatusRequest) {
return func(r *LicenseGetTrialStatusRequest) {
    r.FilterPath = v
}
}

// WithHeader adds the headers to the HTTP request.
func (f LicenseGetTrialStatus) WithHeader(h map[string]string) func(*LicenseGetTrialStatusRequest) {
return func(r *LicenseGetTrialStatusRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    for k, v := range h {
        r.Header.Add(k, v)
    }
}
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicenseGetTrialStatus) WithOpaqueID(s string) func(*LicenseGetTrialStatusRequest) {
return func(r *LicenseGetTrialStatusRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    r.Header.Set("X-Opaque-Id", s)
}
}

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```

```
//
// Code generated from specification version 7.17.10: DO NOT EDIT

package esapi

import (
    "context"
    "net/http"
    "strconv"
    "strings"
)

func newLicensePostStartBasicFunc(t Transport) LicensePostStartBasic
{
    return func(o ...func(*LicensePostStartBasicRequest)) (*Response, error) {
        var r = LicensePostStartBasicRequest{ }
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----

// LicensePostStartBasic - Starts an indefinite basic license.
//
// See full documentation at https://www.elastic.co/guide/en/elasticsearch/reference/master/start-basic.html.
type LicensePostStartBasic func(o ...func(*LicensePostStartBasicRequest)) (*Response, error)

// LicensePostStartBasicRequest configures the License Post Start Basic API request.
type LicensePostStartBasicRequest struct {
    Acknowledge *bool

    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

    ctx context.Context
}

// Do executes the request and returns response or error.
func (r LicensePostStartBasicRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
    )

```

```

    path strings.Builder
    params
    map[string]string
)

method = "POST"

path.Grow(len("/_license/start_basic"))
path.WriteString("/_license/start_basic")

params = make(map[string]string)

if r.Acknowledge != nil {
    params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
}

if r.Pretty {
    params["pretty"] = "true"
}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    }
}

```

```

    } else {
    for k, vv := range r.Header {
        for _, v := range vv {
            req.Header.Add(k, v)
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if
err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:   res.Header,
}

return &response, nil
}

// WithContext sets the request context.
func (f LicensePostStartBasic) WithContext(v context.Context) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.ctx = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
func (f LicensePostStartBasic) WithAcknowledge(v bool) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.Acknowledge = &v
    }
}

// WithPretty makes the response body pretty-printed.
func (f LicensePostStartBasic) WithPretty() func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.Pretty = true
    }
}

```

```

// WithHuman makes statistical values human-readable.
func (f LicensePostStartBasic) WithHuman() func(*LicensePostStartBasicRequest) {
    return
    func(r *LicensePostStartBasicRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
func (f LicensePostStartBasic) WithErrorTrace() func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
func (f LicensePostStartBasic) WithFilterPath(v ...string) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
func (f LicensePostStartBasic) WithHeader(h map[string]string) func(*LicensePostStartBasicRequest) {
    return func(r *LicensePostStartBasicRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        for k, v := range h {
            r.Header.Add(k, v)
        }
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
func (f LicensePostStartBasic) WithOpaqueID(s string) func(*LicensePostStartBasicRequest) {
    {
        return func(r *LicensePostStartBasicRequest) {
            if r.Header == nil {
                r.Header = make(http.Header)
            }
            r.Header.Set("X-Opaque-Id", s)
        }
    }
}

```



# 1.311 httphead 0.1.0

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Brett Vickers (beevik)

Mikhail Salosin (AlphaB)

Anton Tolchanov (knyar)

Christopher Batey (chbatey)

Meng Zhuo (mengzhuo)

Leonid Evdokimov (darkk)

Ask Bjrn Hansen (abh)

Al Cutter (AlCutter)

Silves-Xiang (silves-xiang)

Andrey Smirnov (smira)

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# 1.318 amqp091-go 1.10.0

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## 1.319 analysis 0.23.0

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compiler/cpp/src/thrift/generate/t\_xsd\_generator.cc

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lib/st/README.md  
lib/st/thrift.st  
lib/cpp/test/OptionalRequiredTest.cpp  
test/OptionalRequiredTest.thrift  
test/ThriftTest.thrift  
test/v0.16/ThriftTest.thrift

-----  
For the

aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

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```
{
  "name": "types-package"
}
```

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lib/erl/src/Makefile.am

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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4 components:

```
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#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
  json_parse.js
  2015-05-02
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  */
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
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 * relieved from all responsibilities for any use for any purpose, and (2)
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```

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-----  
For lib/py/compat/win32/stdint.h

```
// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
//
```

-----  
Codegen template  
in t\_html\_generator.h

\* Bootstrap v2.0.3  
\*

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\* Designed and built with all the love in the world @twitter by @mdo and @fat.

-----  
For t\_cl\_generator.cc

\* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>  
\* Copyright (c) 2006- Facebook  
-----

# 1.326 [github.com/pierrec/lz4/v4](https://github.com/pierrec/lz4/v4) 4.1.22

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## 1.330 eclipse-paho-mqtt-golang 1.5.0

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# 1.338 github.com/minio/zipindex 0.4.0

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# 1.339 google-cloud-go-storage 1.46.0

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.35.2
// protoc v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32
```

```

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

```



```

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string

```

```

{
return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be
// generated on create. Examples:
//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.

```

```

Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,

```

0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,  
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,  
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,  
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,  
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,  
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,  
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,  
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,  
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,  
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,  
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,  
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,  
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,  
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,  
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,  
0x4e,  
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,  
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,  
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,  
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,  
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0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,  
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,  
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,  
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,  
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,  
0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,  
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,  
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,  
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,  
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,  
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,  
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,  
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,  
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,  
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,  
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,  
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,  
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,  
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,  
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,  
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,  
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,  
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,  
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,

```

0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
        (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
        (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
    }
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{

```

```

File: protoimpl.DescBuilder{
  GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
  RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
  NumEnums: 2,
  NumMessages: 1,
  NumExtensions: 0,
  NumServices: 0,
},
  GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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```

```
//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```



```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

// TODO: Use client.
_ = c
}

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense

```

```

dUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }

```

```

}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
}
```

```

op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

```

```

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

```

```

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    only.
    // It will require modifications to work:

```



```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

```

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var
    newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,

```



```

        Max:    60000 * time.Millisecond,
        Multiplier: 1.30,
    },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
    )),
    },
    GetIamPolicy:
    []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial:  100 * time.Millisecond,
                Max:      60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
            )),
        },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial:  100 * time.Millisecond,
                Max:      60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
            )),
        },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    }
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error

```

```

setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

type LicensesClient struct {

// The internal transport-dependent client.

internalClient internalLicensesClient

// The call options for this service.

CallOptions \*LicensesCallOptions

}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

func (c \*LicensesClient) Close() error {

return c.internalClient.Close()

}

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

func (c \*LicensesClient) setGoogleClientInfo(keyval ...string) {

c.internalClient.setGoogleClientInfo(keyval...)

}

// Connection returns a connection

to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,

```

```

    logger:    internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {

```

```

    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    // and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }

```

```

httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
if err != nil {
    return err
}

if err := unmarshal(buf,
resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

```



```

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds,
"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)

```

```

if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}

```

```

    }, opts...)
    if e != nil {
        return nil, e
    }
    op := &Operation{
        &globalOperationsHandle{
            c:    c.operationClient,
            proto: resp,
            project: req.GetProject(),
        },
    }
    return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c \*licensesRESTClient) List(ctx context.Context, req \*computepb.ListLicensesRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := &protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            {
                req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
    }
}

```

```

if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
}

```

```

it.items = append(it.items, items...)
return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    }, httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
if err != nil {
    return err
}

if
err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c

```



```

}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {

```

```

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
}
for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

```

```

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status
    "google.golang.org/grpc/status"
    protorelect "google.golang.org/protobuf/reflect/protorelect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {

```

```

isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
    // Allow automatic assignments triggered by data plane operations.
    AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
    `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

```

```

}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```



```

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

```

```

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.

```

```

    Ussnames []string `protobuf:"bytes,2,rep,name=ussnames,proto3" json:"ussnames,omiteempty"
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUssnames() []string {
    if x != nil {

```

```

    return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

```

```

}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{ }
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

func (x *UnassignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
*x = UnassignResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {

```

```

ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState

```



```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Username.
// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
if x != nil {
return x.Username
}
return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
if x != nil {
return x.AssignTime
}
return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
if x != nil {
return x.RecentUsageTime
}
return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// The list of licensed users.
LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
// A token that can be sent as `page_token` to retrieve the next page.
// If this field is omitted, there are no subsequent pages.
NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
*x = EnumerateLicensedUsersResponse{}
mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
if x != nil {
return x.LicensedUsers
}
return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
if x != nil {
return x.NextPageToken
}
return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType

```

```

struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has

```

```

// passed, the license will be automatically unassigned from the user. Must
// be at least 7 days, if set. If unset, the license will never expire.
InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
*x = AssignmentProtocol_AutoAssignmentType{}
mi
:= &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
if x != nil {
return x.InactiveLicenseTtl
}
return nil
}

```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor
```

```
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
```

```
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
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0x74, 0x1a, 0x3a, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,  
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0x31, 0x2e, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x40, 0xda,  
0x41, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x33, 0x12, 0x31, 0x2f, 0x76,  
0x31, 0x2f, 0x7b, 0x6e, 0x61, 0x6d, 0x65, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41,  
0x63, 0x63, 0x6f, 0x75, 0x6e,  
0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73,  
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0x65,  
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0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,  
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,  
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,  
0x2f, 0x2a, 0x2f, 0x6f,  
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,  
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0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,  
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0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,  
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0x65, 0x6e,  
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0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,  
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,  
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0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,  
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,  
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0x2a, 0x2f, 0x6f,  
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0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,

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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
}

```

```

return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil),          // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),          // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),         // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),       // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),   // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name

```

```

-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.prourement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:
type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.prourement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.prourement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.prourement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.prourement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.prourement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.prourement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.prourement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

```

```

func init() {
    file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[0].Oneof

```

```

Wrappers = []any{
    (*AssignmentProtocol_ManualAssignmentType_)(nil),
    (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
type x struct{ }
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
}

```

```

// Assigns a license to a user.
Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
out := new(LicensePool)
err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
if err != nil {
return nil, err
}
return
out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
out := new(LicensePool)
err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
if err != nil {
return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
out := new(AssignResponse)
err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
if err != nil {

```

```

    return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

```



```

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {

```

```

in := new(UpdateLicensePoolRequest)
if err := dec(in); err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{

```

```

Server:    srv,
FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.prourement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:
_LicenseManagementService_Assign_Handler,
        },
    },
}

```

```

{
  MethodName: "Unassign",
  Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{ },
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2



```

// protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
    }
)

```

```

"USER":          1,
"GROUP":         2,
"EVERYONE":      3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

```

```

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform

```

```

// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user or group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {

```

```

return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
}

```

```
return Permission_ROLE_UNSPECIFIED
}
```

```
var
```

```
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54,
    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
```

```

0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0),    // 1: google.ai.generativelanguage.v1beta.Permission.Role
}

```

```

(*Permission)(nil),      // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
  0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GrantType
  1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
  2, // [2:2] is the sub-list for method output_type
  2, // [2:2] is the sub-list for method input_type
  2, // [2:2] is the sub-list for extension type_name
  2, // [2:2] is the sub-list for extension extendee
  0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
  if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
    return
  }
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
  type x struct{}
  out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
      GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
      RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
      NumEnums: 2,
      NumMessages: 1,
      NumExtensions: 0,
      NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
  }.Build()
  File_google_ai_generativelanguage_v1beta_permission_proto = out.File
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
  file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
  = nil
  file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.340 [github.com/charmbracelet/bubbles](https://github.com/charmbracelet/bubbles)

## 0.20.0



## 1.340.1 Available under license :

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## 1.341 [github.com/klauspost/reedsolomon](https://github.com/klauspost/reedsolomon)

### 1.12.4

## 1.341.1 Available under license :

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# 1.342 msgp 1.2.5

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# 1.343 secure 1.17.0

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# 1.344 googlecloudgostorage 1.46.0

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
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require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
}

```

```

it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}

}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute.Licenses#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()

```

```

// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"

```



)

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.34.2

// protoc v4.25.3

// source: google/cloud/commerce/consumer/procurement/v1/license\_management\_service.proto

package procurementpb

```

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status
        "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    if protoimpl.UnsafeEnabled {
        mi :=
            &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

```

```

}
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte,
    []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
}

```



```

return nil
}

type isAssignmentProtocol_AssignmentType interface {
isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type AssignmentProtocol_AutoAssignmentType_struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license
pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}

```

```

if protoimpl.UnsafeEnabled {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool)
ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

```

```

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool)
GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    if protoimpl.UnsafeEnabled {
        mi :=
        &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message
{
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if protoimpl.UnsafeEnabled && x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    //
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

    ms.StoreMessageInfo(mi)
}
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if
    protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService

```

```

e.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    //
    Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *AssignRequest) Reset() {
    *x = AssignRequest{}
    if protoimpl.UnsafeEnabled {
        mi :=
        &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return
        ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```

```

[]int{4}
}

func (x *AssignRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func
(x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if protoimpl.UnsafeEnabled && x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache
        protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset() {
    *x = UnassignRequest{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

```



```

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
}

```

```

if protoimpl.UnsafeEnabled {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type
EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return

```

```

// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3" json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
*x = EnumerateLicensedUsersRequest{}
if protoimpl.UnsafeEnabled {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

func (x *EnumerateLicensedUsersRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if
x != nil {
return x.Parent
}
}

```

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    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

```

```

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for

```

```
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    //
    If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
        ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]

```

```

if protoimpl.UnsafeEnabled && x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    if protoimpl.UnsafeEnabled {
        mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        ms.StoreMessageInfo(mi)
    }
}

func
(x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

```



```

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if protoimpl.UnsafeEnabled && x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return
    nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
        0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
        0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
        0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
        0x31, 0x1a,
        0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
        0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
        0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
        0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
        0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
        0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    }

```

0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,  
0x62, 0x75, 0x66, 0x2f, 0x64, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,  
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0x62, 0x75, 0x66,  
0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,  
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,  
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,  
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,  
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,  
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,  
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74,  
0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,  
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,  
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,  
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0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73,  
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,  
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x54, 0x79,  
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,  
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,  
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0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,  
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,  
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,  
0x03, 0xe0, 0x41, 0x01, 0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,  
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,  
0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,  
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,  
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,  
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0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,  
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,  
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,  
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,

0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,  
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63,  
0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,  
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,  
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0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,  
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0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63,  
0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,  
0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73,  
0x70, 0x6f, 0x6e, 0x73, 0x65, 0x22, 0x58, 0xda, 0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,  
0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,  
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,  
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,  
0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,  
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,  
0xe7, 0x01,  
0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
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0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3f, 0x2e, 0x67,

0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,  
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0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,  
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02,  
0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,  
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,  
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,  
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,  
0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,  
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,  
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,  
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0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,  
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0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,  
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,  
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,  
0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,  
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,  
0x65,  
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,  
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,  
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0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,  
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,  
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,  
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,  
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,  
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,  
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,  
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,  
0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,  
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,  
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,  
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,  
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,  
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,  
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,  
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,

```

0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),           // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),                 // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),        // 2: google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),     // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),                // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),               // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),              // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),             // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:

```

```

google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil), // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil),
// 10: google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name ->
google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15,
// 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e

```



```

-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is
the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Expor
ter = func(v any, i int) any {
            switch v := v.(*AssignmentProtocol); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            case 2:
                return &v.unknownFields
            default:
                return nil
            }
        }
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1].Expor
ter = func(v any, i int) any {
        switch v := v.(*LicensePool); i {
        case 0:

```

```

    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
}
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2].Export
er = func(v any, i int) any {
    switch v := v.(*GetLicensePoolRequest); i {
case 0:
    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
    }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3].Export
er = func(v any, i int) any {
    switch v := v.(*UpdateLicensePoolRequest); i {
case 0:
    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
    }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4].Export
er = func(v any, i int)
any {
    switch v := v.(*AssignRequest); i {
case 0:
    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
    }
}

```

```

    }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5].Export
er = func(v any, i int) any {
    switch v := v.(*AssignResponse); i {
    case 0:
        return &v.state
    case 1:
        return &v.sizeCache
    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6].Export
er = func(v any, i int) any {
    switch v := v.(*UnassignRequest); i {
    case 0:
        return &v.state
    case 1:
        return &v.sizeCache
    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7].Export
er = func(v any, i int) any {
    switch v := v.(*UnassignResponse); i {
    case
0:
        return &v.state
    case 1:
        return &v.sizeCache
    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8].Export
er = func(v any, i int) any {
    switch v := v.(*EnumerateLicensedUsersRequest); i {
    case 0:
        return &v.state
    case 1:
        return &v.sizeCache

```

```

    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9].Export = func(v any, i int) any {
    switch v := v.(*LicensedUser); i {
    case 0:
        return &v.state
    case 1:
        return &v.sizeCache
    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10].Export = func(v any, i int) any {
    switch v := v.(*EnumerateLicensedUsersResponse); i {
    case 0:
        return &v.state
    case 1:
        return &v.sizeCache
    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11].Export = func(v any, i int) any {
    switch v := v.(*AssignmentProtocol_ManualAssignmentType); i {
    case 0:
        return &v.state
    case 1:
        return &v.sizeCache
    case 2:
        return &v.unknownFields
    default:
        return nil
    }
}

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12].Export = func(v any, i int) any {

```

```

switch v := v.(*AssignmentProtocol_AutoAssignmentType); i {
case 0:
    return &v.state
case 1:
    return &v.sizeCache
case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
    (*AssignmentProtocol_ManualAssignmentType_)(nil),
    (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
type
x struct{ }
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file

```

```

// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out,
        opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
        opts...)
}

```

```

if err != nil {
    return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to

```

```

a user.
Assign(context.Context, *AssignRequest) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer)
Assign(context.Context, *AssignRequest) (*AssignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in
:= new(GetLicensePoolRequest)
if err := dec(in); err != nil {
return nil, err
}
if interceptor == nil {
return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
}

```



```

}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return
}

```

```

    interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv interface{ }, ctx context.Context, dec func(interface{ })
error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err
:= dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{

```

```

{
  MethodName: "GetLicensePool",
  Handler:  _LicenseManagementService_GetLicensePool_Handler,
},
{
  MethodName: "UpdateLicensePool",
  Handler:  _LicenseManagementService_UpdateLicensePool_Handler,
},
{
  MethodName:
"Assign",
  Handler:  _LicenseManagementService_Assign_Handler,
},
{
  MethodName: "Unassign",
  Handler:  _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler:  _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{ },
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
// Copyright 2024 Google LLC
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//   https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
  "bytes"
  "context"
  "fmt"
  "io"

```

```

"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/compute_pb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

```

```

var newLicensesClientHook clientHook

```

```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.

```

```

type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

```

```

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
    },
}

```

```

GetIamPolicy:
[]gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:      60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:      60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000
* time.Millisecond),
},
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
}

```

```

List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)

```

```

(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use
only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,

```

```

error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
    context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {

```



```

    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient
= nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

```

```

}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
        fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
            url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &compute.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpResp.Body.Close()

        if err = googleapi.CheckResponse(httpResp); err != nil {

```

```

    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.  
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

```

```

    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Insert[:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }

```

```

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a

list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from client and context metadata.
        hds := append(c.xGoogHeaders, "Content-Type", "application/json")
        headers := gax.BuildHeaders(ctx, hds...)
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```



```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return
err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

```

```

it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for
use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller
// has on the specified resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.

```

```

hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return
nil
}, opts...)
if e != nil {
return nil, e
}

```

```

return resp, nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute_pb#GetLicenseCodeRequest.
    }
}
```

```

resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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```

```

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```



```

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {

```

```

resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {

```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.34.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

```

```

// group.
Permission_GROUP Permission_GranteeType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GranteeType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
    p := new(Permission_GranteeType)
    *p = x
    return p
}

func (x Permission_GranteeType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,

```

0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,  
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,  
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,  
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,  
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,  
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,  
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,  
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,  
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,  
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,  
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,  
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,  
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,  
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,  
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,  
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,  
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0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,  
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,  
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0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,  
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0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,  
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0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,  
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,  
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,  
0x64,  
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,  
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,  
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,  
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,  
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,  
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,  
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,  
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,  
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,  
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,  
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,  
0x72, 0x6f, 0x74, 0x6f, 0x33,  
}

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
        (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
    file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            }
        }
    }
}

```



```

case 2:
    return &v.unknownFields
default:
    return nil
}
}
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
//go:build go1.23
package compute_test

```

```

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

```

# 1.345 pbzip2 1.0.5

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# 1.346 [github.com/minio/sio](https://github.com/minio/sio) 0.4.1

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# 1.347 fgprof 0.9.5

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## 1.348 [github.com/unrolled/secure](https://github.com/unrolled/secure) 1.17.0

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## 1.349 [zipindex](https://github.com/zipindex/zipindex) 0.4.0

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## 1.350 [github.com/charmbracelet/x/term](https://github.com/charmbracelet/x/term) 0.2.1

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## 1.351 [go-colorful](https://github.com/lucasbeyer/go-colorful) 1.2.0

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## 1.352 cors 1.11.1

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## 1.353 gax-go 2.14.1

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## 1.354 githubcommailrueasyjson 0.9.0

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}
```



```

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
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    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,

```

```

// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*compute.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute.LicensesRESTClient#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
// generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.TestIamPermissionsLicenseRequest{

```

```
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

//go:build go1.23

package compute\_test

import (

    "context"

    compute "cloud.google.com/go/compute/apiv1"

    computepb "cloud.google.com/go/compute/apiv1/computepb"

)

func ExampleLicensesClient\_List\_all() {

    ctx := context.Background()

    // This snippet has been automatically generated and should be regarded as a code template only.

    // It will require modifications

    to work:

    // - It may require correct/in-range values for request initialization.

    // - It may require specifying regional endpoints when creating the service client as shown in:

    // [https://pkg.go.dev/cloud.google.com/go#hdr-Client\\_Options](https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options)

    c, err := compute.NewLicensesRESTClient(ctx)

    if err != nil {

        // TODO: Handle error.

    }

    defer c.Close()

```

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
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//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
}
for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}

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```

```

// versions:
// protoc-gen-go v1.35.2
// protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {

```

```

*x = AssignmentProtocol{ }
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {

```

```

if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
    return x.AutoAssignmentType
}
return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

```

```

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

```



```

}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if

```

```

ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState

```

```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
*x = AssignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
if x != nil {

```

```

    return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
    := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]

```



```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
== nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }

```

```

}
return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`

    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.

```

```

NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
*x = EnumerateLicensedUsersResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
if x != nil {
return x.LicensedUsers
}
return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
if x != nil {

```

```

    return x.NextPageToken
}
return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

```

```

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

```

```

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protorelect.FileDescriptor

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{

```

```

    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
    0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x64,
    0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
    0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
    0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
    0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
    0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
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0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,  
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0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,  
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0x65, 0x6e,  
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0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,  
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```

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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

```

```

func

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
})
return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),
        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil),
        // 8:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil),
        // 10:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil),
        // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil),
        // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),
        // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->

```

```

google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

```

```

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}

func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums:    0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices:  1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//

```

```

// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
    error)
    // Assigns a license to a user.
    Assign(ctx
    context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
    (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
    "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
    "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
    opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```



```
}
```

```
func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error) {  
    out := new(AssignResponse)  
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in, out, opts...)  
    if err != nil {  
        return nil, err  
    }  
    return out, nil  
}
```

```
func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error) {  
    out := new(UnassignResponse)  
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign", in, out, opts...)  
    if err != nil {  
        return nil, err  
    }  
    return out, nil  
}
```

```
func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {  
    out := new(EnumerateLicensedUsersResponse)  
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out, opts...)  
    if err != nil {  
        return nil, err  
    }  
    return out, nil  
}
```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```
type LicenseManagementServiceServer interface {  
    // Gets the license pool.  
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)  
    // Updates the license pool if one exists for this Order.  
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)  
    // Assigns a license to a user.  
    Assign(context.Context, *AssignRequest) (*AssignResponse, error)  
    // Unassigns a license from a user.  
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)  
    // Enumerates all users assigned a license.
```

```

EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(GetLicensePoolRequest)
if err := dec(in);
err != nil {
return nil, err
}
if interceptor == nil {
return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
}

```

```

handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{ }, ctx context.Context, dec func(interface{ })
error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{ }, ctx context.Context, dec func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ },
error) {

```

```

in := new(UnassignRequest)
if err := dec(in); err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
    },
}

```

```

    MethodName: "UpdateLicensePool",
    Handler:  _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
    MethodName: "Assign",
    Handler:
      _LicenseManagementService_Assign_Handler,
  },
  {
    MethodName: "Unassign",
    Handler:  _LicenseManagementService_Unassign_Handler,
  },
  {
    MethodName: "EnumerateLicensedUsers",
    Handler:  _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
  },
  Streams:  []grpc.StreamDesc{ },
  Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
// Copyright 2024 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

// Copyright 2024 Google LLC
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// See the License for the specific language governing permissions and  
// limitations under the License.
```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "log/slog"  
    "math"  
    "net/http"  
    "net/url"  
    "time"
```

```
computepb "cloud.google.com/go/compute/apiv1/computepb"  
gax "github.com/googleapis/gax-go/v2"  
"google.golang.org/api/iterator"  
"google.golang.org/api/option"  
"google.golang.org/api/option/internaloption"  
httptransport "google.golang.org/api/transport/http"  
"google.golang.org/grpc"  
"google.golang.org/protobuf/encoding/protojson"  
"google.golang.org/protobuf/proto"  
)
```

```
var  
    newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {  
    Delete      []gax.CallOption  
    Get         []gax.CallOption  
    GetIamPolicy []gax.CallOption  
    Insert      []gax.CallOption  
    List        []gax.CallOption  
    SetIamPolicy []gax.CallOption  
    TestIamPermissions []gax.CallOption  
}
```

```
func defaultLicensesRESTCallOptions() *LicensesCallOptions {  
    return &LicensesCallOptions{  
        Delete: []gax.CallOption{  
            gax.WithTimeout(600000 * time.Millisecond),
```

```

    },
    Get: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    GetIamPolicy:
    []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

```

```

}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```



```

// Connection returns a connection
to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
    who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

```

```

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
    endpoint:    endpoint,
    httpClient:  httpClient,
    CallOptions: &callOpts,
    logger:     internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when

```

```

// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {

```

```

    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
if err != nil {
    return err
}

if err := unmarshal(buf,
resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

```

```

hds = append(c.xGoogHeaders,
hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }

```

```

if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds,
"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// Insert create a License resource in the specified project. Caution This resource is intended

```

for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
        if err != nil {
            return err
        }
    })
}

```



```

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

```

```

return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c \*licensesRESTClient) List(ctx context.Context, req \*computepb.ListLicensesRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            {
                req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
    }
}

```

```

if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

```

```

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}
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```

```

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
// Copyright 2024 Google LLC
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// you may not use this file except in compliance with the License.
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//
//   https://www.apache.org/licenses/LICENSE-2.0
//

```

```

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{

```

```

// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {

```

```

// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

\_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

\_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

\_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)

// Defines types of the grantee of this permission.

type Permission\_GranteeType int32

```

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

```

```

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return

```

```

protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`

```

```

// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

```

```

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {

```

```

if x != nil {
    return x.Name
}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,

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0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{

```



```

GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums:    2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos:  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.356 vim 9.1.0724-2.ph4

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<Bram@vim.org>.

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Kibaale Children's Centre

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ING. IBAN: NL95 INGB 0004 5487 74

SWIFT: INGBNL2A

stichting ICCF Holland, Amersfoort

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, , 2022, <kazorin@basealt.ru>  
Restorer, , 2024, <restorer@mail2k.ru>

vim:tw=78:ts=8:noet:ft=help:norl:

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Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!  
Contributors to the EditorConfig Vim Plugin:

Hong Xu  
Trey Hunner  
Kent Frazier  
Chris White  
\*uganda.txt\* For Vim version 9.1. Last change: 2024 Aug 14

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*  
SUMMARY  
\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

<https://iccf-holland.org/>  
<https://www.vim.org/iccf/>  
<https://www.iccf.nl/>

You can also sponsor the development of Vim, see |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

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II) It is allowed to distribute a modified (or extended) version of Vim,

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- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:

- a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version,

also applies to your changes.

The current maintainers are listed here: <https://github.com/orgs/vim/people>.

If this changes it will be announced in appropriate places (most likely [vim.sf.net](http://vim.sf.net), [www.vim.org](http://www.vim.org) and/or [comp.editors](http://comp.editors)). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

- b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

- c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making

their own changes to the official version of Vim.

- d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified

Vim, or as long as possible.

- e) When the GNU General Public License (GPL) applies to the changes,

you can distribute the modified Vim under the GNU GPL version 2 or any later version.

- 3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.
- 4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is  
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
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contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there usually is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that in the past 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. Although AIDS is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*\*donate\**

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic:  
Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have  
any further questions, send e-mail: <Bram@vim.org>.

The address of the centre is:  
Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: *\*iccf-donations\**

Check the ICCF web site for the latest information! See [\[iccf\]](#) for the URL.



USA: The methods mentioned below can be used.

If you must send a check send it to our Canadian partner:

<https://www.kuwasha.net/>

Canada: Contact Kuwasha in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. Kuwasha forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Look on their site for information about sponsorship:

<https://www.kuwasha.net/>

If you make a donation to Kuwasha you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Amersfoort. This will allow for tax deduction if you live in Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<https://iccf-holland.org/germany.html>

Europe: Use a bank transfer if possible. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

Others: Transfer to this account if possible:

ING bank: IBAN: NL95 INGB 0004 5487 74

Swift code: INGBNL2A

under the name "stichting ICCF Holland", Amersfoort

Checks are not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

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# vi: set ft=:

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Arnaud LE HORS    BULL Research FRANCE -- Koala Project  
(XPM - X PixMap format version 2 & 3)

Internet:    lehors@sophia.inria.fr

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2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE

Voice phone:    (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

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## 1.357 Idap 3.4.10

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
```

```

require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```



```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()

```

```

{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {

```

```

resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically

```

```

generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &compute.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "net/http"
    "net/url"
    "time"

```

```

compute pb "cloud.google.com/go/compute/apiv1/compute pb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        TestIamPermissions: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close()
    error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *compute pb.GetLicenseCodeRequest, ...gax.CallOption) (*compute pb.LicenseCode, error)
    TestIamPermissions(context.Context, *compute pb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*compute pb.TestPermissionsResponse, error)
}

```

```

}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx,
        req, opts...)
}

```

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions

    logger *slog.Logger
}

// NewLicenseCodesRESTClient
creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
        logger:    internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

```

```

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
// returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```



```

    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.LicenseCode{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req

```

```

*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type",
    "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
    tIamPermissions)], opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
        if err != nil {
            return err
        }

        if err := unm.Unmarshal(buf, resp); err != nil {
            return err
        }
    })
}

```

```
    return nil
  }, opts...)
  if e != nil {
    return nil, e
  }
  return resp, nil
}
```

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package procurement

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"

longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/iterator"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

gtransport

"google.golang.org/api/transport/grpc"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/protobuf/encoding/protojson"

"google.golang.org/protobuf/proto"

)

var newLicenseManagementClientHook clientHook



```

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
    GetLicensePool      []gax.CallOption
    UpdateLicensePool   []gax.CallOption
    Assign              []gax.CallOption
    Unassign            []gax.CallOption
    EnumerateLicensedUsers []gax.CallOption
    GetOperation        []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
        internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443"),
        ,
        internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableJwtWithScope(),
        internaloption.EnableNewAuthLibrary(),
        option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
            grpc.MaxCallRecvMsgSize(math.MaxInt32))),
    }
}

func
defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
    return &LicenseManagementCallOptions{
        GetLicensePool:      []gax.CallOption{ },
        UpdateLicensePool:   []gax.CallOption{ },
        Assign:              []gax.CallOption{ },
        Unassign:            []gax.CallOption{ },
        EnumerateLicensedUsers: []gax.CallOption{ },
        GetOperation:        []gax.CallOption{ },
    }
}

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
    return
    &LicenseManagementCallOptions{
        GetLicensePool:      []gax.CallOption{ },
        UpdateLicensePool:   []gax.CallOption{ },
        Assign:              []gax.CallOption{ },
        Unassign:            []gax.CallOption{ },
        EnumerateLicensedUsers: []gax.CallOption{ },
        GetOperation:        []gax.CallOption{ },
    }
}

```

```

}

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
    Unassign(context.Context, *procurementpb.UnassignRequest,
...gax.CallOption) (*procurementpb.UnassignResponse, error)
    EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
    GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseManagementClient

    // The call options for this service.
    CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
    Close() error {
        return c.internalClient.Close()
    }

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {

```

```

c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
    UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
    return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
    return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    return c.internalClient.EnumerateLicensedUsers(ctx,
        req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    return c.internalClient.GetOperation(ctx, req, opts...)
}

```

```

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
// over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementGRPCClient struct {
    // Connection pool of gRPC connections to the service.
    connPool gtransport.ConnPool

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    // The gRPC API client.
    licenseManagementClient procurementpb.LicenseManagementServiceClient

    operationsClient longrunningpb.OperationsClient

    //
    // The x-goog-* metadata to be sent with each request.
    xGoogHeaders []string

    logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
    clientOpts := defaultLicenseManagementGRPCClientOptions()
    if newLicenseManagementClientHook != nil {
        hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{ })
        if err != nil {
            return nil, err
        }
        clientOpts = append(clientOpts, hookOpts...)
    }

    connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
    if err != nil {
        return nil, err
    }
    client := LicenseManagementClient{ CallOptions: defaultLicenseManagementCallOptions() }

    c := &licenseManagementGRPCClient{
        connPool:

```

```

    connPool,
    licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
    CallOptions:      &client.CallOptions,
    logger:           internaloption.GetLogger(opts),
    operationsClient:  longrunningpb.NewOperationsClient(connPool),
}
c.setGoogleClientInfo()

client.internalClient = c

return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
    return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
        grpc.Version)
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
    return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

```

```

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicenseManagementClient
CallOptions **LicenseManagementCallOptions

logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicenseManagementClient, error) {
    clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseManagementRESTCallOptions()
    c := &licenseManagementRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
        internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for

```

```

// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
// returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
    return nil
}

func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
        return err
    }, opts...)
    if err != nil {
        return
        nil, err
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req

```

```

*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
        return err
    }, opts...)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
    var resp *procurementpb.AssignResponse
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
        return err
    }, opts...)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds
    = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)

```



```

opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
var resp *procurementpb.UnassignResponse
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    var err error
    resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
    return err
}, opts...)
if err != nil {
    return nil, err
}
return resp, nil
}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOptions).EnumerateLicensedUsers)],
opts...)
it := &LicensedUserIterator{ }
req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
    resp := &procurementpb.EnumerateLicensedUsersResponse{ }
    if pageToken != "" {
        req.PageToken = pageToken
    }
    if pageSize > math.MaxInt32 {
        req.PageSize = math.MaxInt32
    } else if pageSize != 0 {
        req.PageSize = int32(pageSize)
    }
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
        return err
    }, opts...)
    if err != nil {
        return nil, "", err
    }

    it.Response = resp
    return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

```

```

fetch := func(pageSize int,
pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
    var resp *longrunningpb.Operation
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
        var err error
        resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
        return err
    }, opts...)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

```

```

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicensePool)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,

```

```

opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
m := protojson.MarshalOptions{ AllowPartial: true, UseEnumNumbers: true}
body := req.GetLicensePool()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")
if req.GetUpdateMask() != nil {
    field, err := protojson.Marshal(req.GetUpdateMask())
    if err != nil {
        return nil, err
    }
    params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).UpdateLicensePool)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)

```

```

httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

    params := url.Values{}
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

resp
:= &procurementpb.AssignResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return
        nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

```

```

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.UnassignResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    it := &LicensedUserIterator{}
    req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {

```

```

resp := &procurementpb.EnumerateLicensedUsersResponse{ }
if
pageToken != "" {
    req.PageToken = pageToken
}
if pageSize > math.MaxInt32 {
    req.PageSize = math.MaxInt32
} else if pageSize != 0 {
    req.PageSize = int32(pageSize)
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")
if req.GetPageSize() != 0 {
    params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
}
if req.GetPageToken() != "" {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }
}

```



```

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
    *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
    opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =

```

```

append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &longrunningpb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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```

```

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc       v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

```

```

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

```

```

}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
    AssignmentProtocol_AutoAssignmentType_struct {
    // Allow automatic assignments triggered by data plane operations.
    AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
    `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=

```



```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {

```

```

    return x.AvailableLicenseCount
}
return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }

```

```

    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.

```

```

Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
*x = AssignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

```

```

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {

```



```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {
    ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
== nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

```

```

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`

    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

```

```

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

```

```

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

unknownFields protoimpl.UnknownFields

```
// Optional. The time to live for an inactive license. After this time has
// passed, the license will be automatically unassigned from the user. Must
// be at least 7 days, if set. If unset, the license will never expire.
InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}
```

```
func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}
```

// Deprecated: Use AssignmentProtocol\_AutoAssignmentType.ProtoReflect.Descriptor instead.

```
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
}
```

```
return nil
}
```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor
```

```
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
```

```
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
```



0x73,  
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,  
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,  
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,  
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,  
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,  
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,  
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,  
0x03, 0xe0, 0x41, 0x01,  
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,  
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0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,  
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0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x71, 0xda, 0x41, 0x18, 0x6c,  
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0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c,

0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x2f, 0x2a, 0x7d, 0x12, 0xdf, 0x01,  
0x0a, 0x06, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,  
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0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,  
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,  
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,  
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0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,  
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0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,  
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70,  
0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,  
0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,  
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,  
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,  
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,  
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0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,  
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,  
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,  
0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,  
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0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,  
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0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,  
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,  
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,

```

0x2a, 0x2f, 0x6f,
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0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
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0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
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0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
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0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
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0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =

```

```

protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
}))
return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),           // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),          // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),         // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),           // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),           // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),             // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
}

```

```

14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {

```

```

    return
}
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
    (*AssignmentProtocol_ManualAssignmentType_)(nil),
    (*AssignmentProtocol_AutoAssignmentType_)(nil),
}
type x struct{ }
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:   1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)

```



```

// Updates the license pool if one exists for this Order.
UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
// Assigns a license to a user.
Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
out := new(LicensePool)
err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
if err != nil {
return nil, err
}
return
out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
out := new(LicensePool)
err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
if err != nil {
return nil, err
}
return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
out := new(AssignResponse)

```

```

err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
if err != nil {
    return nil, err
}
return out, nil
}

```

```

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

```

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

```

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible

```

implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Assign_Handler(srv interface{ }, ctx context.Context, dec func(interface{ })
error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{ }, ctx context.Context, dec func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ },
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {

```

```

    return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",

```

```

Handler:
  _LicenseManagementService_Assign_Handler,
},
{
  MethodName: "Unassign",
  Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{ },
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options

```

```

c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
// Copyright 2024 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"

```



```

"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
}

```

```

Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        }),
        http.StatusGatewayTimeout,
        http.StatusServiceUnavailable)
    }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.

```

```

type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty

```

if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,

use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners

who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string
}
```

// The http client.

httpClient \*http.Client

```

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
CallOptions: &callOpts,
logger: internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{

```

```

internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
internaloption.WithDefaultMTLEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
"x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client
and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{

```

```

&globalOperationsHandle{
  c:    c.operationClient,
  proto: resp,
  project: req.GetProject(),
},
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
    return nil, err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

  // Build HTTP headers from client and context metadata.
  hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

  hds = append(c.xGoogHeaders,
hds...)
  hds = append(hds, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
  unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
  resp := &computepb.License{}
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
      baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
      return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
      return err
    }

    if err := unmarshalOptions.Unmarshal(buf, resp); err != nil {
      return err
    }
  })
  if err != nil {
    return nil, err
  }
  return resp, nil
}

```



```

    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
    "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from
        client and context metadata.
        hds := append(c.xGoogHeaders, "Content-Type", "application/json")
        headers := gax.BuildHeaders(ctx, hds...)
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }

```

```

    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)

```

```

if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds
:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {

```

```

    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}
```

```
}
```

```
func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}
```

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
}
```

```

it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)

```



```

if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//   http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:

```

```

// protoc-gen-go v1.35.2
// protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{

```

```

"GRANTEE_TYPE_UNSPECIFIED": 0,
"USER":                      1,
"GROUP":                     2,
"EVERYONE":                  3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

```

```

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//

```

```

// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }

```

```

}
return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,

```

```

0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
}

```



```

// 0: google.ai.generativelanguage.v1beta.Permission.GrantType
(Permission_Role)(0),    // 1: google.ai.generativelanguage.v1beta.Permission.Role
(*Permission)(nil),      // 2: google.ai.generativelanguage.v1beta.Permission
}

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
  0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GrantType
  1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
  2, // [2:2] is the sub-list for method output_type
  2, // [2:2] is the sub-list for method input_type
  2, // [2:2] is the sub-list for extension type_name
  2, // [2:2] is the sub-list for extension extendee
  0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
  if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
    return
  }
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
  type x struct{}
  out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
      GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
      RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
      NumEnums: 2,
      NumMessages: 1,
      NumExtensions: 0,
      NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
  }.Build()
  File_google_ai_generativelanguage_v1beta_permission_proto = out.File
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
  file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
  = nil
  file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.363 go-auth-oauth2adapt 0.2.7

## 1.363.1 Available under license :

```
// Copyright 2024 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
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// http://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
```

```

Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
// Represents a user. When set, you must provide email_address for the user.
Permission_USER Permission_GrantType = 1
// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

```

```

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

```

```

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P

```

```

    permission_GrantType,oneof"
    json:"grantee_type,omitempty"
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"
}

```

```

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
}

```

```

return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,

```

```

0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```



```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
        (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
        (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
    }
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
        google.ai.generativelanguage.v1alpha.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
        google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
            NumEnums: 2,

```

```

    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:    file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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//go:build go1.23

package compute_test

```

```

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {

```

```

resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {

```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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package compute_test

```



```

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.

```

```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

    req := &compute.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

```

```

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)

```

```

if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package compute

import (

```

"bytes"
"context"
"fmt"
"log/slog"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,

```

```

    http.StatusServiceUnavailable)
    }),
    },
    GetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
}

```

```

GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```

type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

```

// The call options for this service.

```

CallOptions *LicensesCallOptions
}

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```

func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

// Connection returns a connection  
to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

```

```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners

```

```

    who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

```

```

o := []option.ClientOption{
    option.WithHTTPClient(httpClient),
    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
// with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

```



```

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    // and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")

```

```

    if err != nil {
        return err
    }

    if err := unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```

```

    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

```

```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds,
"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}

```

```

op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{ }
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{ }
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            {
                req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{ }
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {

```

```

params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

```

```

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)

```



```
httpReq.Header = headers
```

```
buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
if err != nil {
    return err
}
```

```
if
err := unmarshal(buf, resp); err != nil {
    return err
}
```

```
return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
```

```
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
```

```
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())
```

// Build HTTP headers from client and context metadata.

```
hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}
```

```
hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
```

```

append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```
//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }

```

```

for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
grpc "google.golang.org/grpc"
codes "google.golang.org/grpc/codes"
status
"google.golang.org/grpc/status"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
// Verify that this generated code is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
// Verify that runtime/protoimpl is sufficiently up-to-date.
_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// The type of assignment protocol.
//
// Types that are assignable to AssignmentType:
//
// *AssignmentProtocol_ManualAssignmentType_
// *AssignmentProtocol_AutoAssignmentType_
AssignmentType
isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
*x = AssignmentProtocol{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {

```



```

// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {

```

```

    return x.TotalLicenseCount
}
return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return

```

```

file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func

```

```

(x *AssignRequest) Reset() {
*x = AssignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

```

```

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//

```

```

[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

```



```

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo()
    == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.

```

```

// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

```

```

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"

```

```
json:"inactive_license_ttl,omitempty"
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}
```

```
func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}
```

// Deprecated: Use AssignmentProtocol\_AutoAssignmentType.ProtoReflect.Descriptor instead.

```
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}
```

```
var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor
```

```
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
```



```
[]byte{
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
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}

var (
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sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
// 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil), // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil), // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil), // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil), // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil), // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
// 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->

```

```

google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:
type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
-> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
}

```



```

}
type x struct{ }
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages:  13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx

```

```

context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
}

```

```

return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,

```

```

*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {

```

```

    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",

```

```

}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",

```

```

Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{ },
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

```

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protorelect "google.golang.org/protobuf/reflect/protorelect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANT_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANT_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANT_TYPE_UNSPECIFIED": 0,
        "USER":                  1,
        "GROUP":                 2,
    }
)

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    "EVERYONE":          3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (

```

```

Permission_Role_name = map[int32]string{
    0: "ROLE_UNSPECIFIED",
    1: "OWNER",
    2: "WRITER",
    3: "READER",
}
Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":            1,
    "WRITER":            2,
    "READER":            3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,

```

```

you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```



var

File\_google\_ai\_generativelanguage\_v1beta\_permission\_proto protoreflect.FileDescriptor

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54,
    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
    0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
```

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0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),    // 2: google.ai.generativelanguage.v1beta.Permission
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos:  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
    = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.364 s2a-go 0.1.9

## 1.364.1 Available under license :

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## 1.370 githubcommatngocolorable 0.1.14

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lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c

lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et

lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c

slave/kproplog.c

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lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
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lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c

lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprof\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h

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lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
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lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including  
the following new or changed files:

include/iprof\_hdr.h

kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
```

)

```
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
```

```

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"

```

```

"log/slog"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/compute_pb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        TestIamPermissions: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close()
    error
    setGoogleClientInfo(...string)

```

```

Connection() *grpc.ClientConn
Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {

```

```

return c.internalClient.Get(ctx,
req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions

logger *slog.Logger
}

// NewLicenseCodesRESTClient
creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

callOpts := defaultLicenseCodesRESTCallOptions()
c := &licenseCodesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
CallOptions: &callOpts,
logger: internaloption.GetLogger(opts),
}

```

```

c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection
// returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.

```

```

func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

    hds
    = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

        if err := unmarshal(buf, resp); err != nil {
            return err
        }

        return nil
    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}

```



```

// TestIamPermissions returns permissions that a caller has on the specified
// resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type",
    "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
    tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
        if err != nil {
            return err
        }
    })
}

```

```

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package procurement

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"

longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/iterator"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

gtransport

"google.golang.org/api/transport/grpc"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/protobuf/encoding/protojson"

"google.golang.org/protobuf/proto"

)

```
var newLicenseManagementClientHook clientHook
```

```
// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
```

```
type LicenseManagementCallOptions struct {  
    GetLicensePool    []gax.CallOption  
    UpdateLicensePool []gax.CallOption  
    Assign            []gax.CallOption  
    Unassign          []gax.CallOption  
    EnumerateLicensedUsers []gax.CallOption  
    GetOperation      []gax.CallOption  
}
```

```
func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {  
    return []option.ClientOption{  
        internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),  
        internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443"),  
        ,  
        internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),  
        internaloption.WithDefaultUniverseDomain("googleapis.com"),  
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),  
        internaloption.WithDefaultScopes(DefaultAuthScopes()),  
        internaloption.EnableJwtWithScope(),  
        internaloption.EnableNewAuthLibrary(),  
        option.WithGRPCDialOption(grpc.WithDefaultCallOptions(  
            grpc.MaxCallRecvMsgSize(math.MaxInt32))),  
    }  
}
```

```
func  
defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {  
    return &LicenseManagementCallOptions{  
        GetLicensePool:    []gax.CallOption{ },  
        UpdateLicensePool: []gax.CallOption{ },  
        Assign:             []gax.CallOption{ },  
        Unassign:          []gax.CallOption{ },  
        EnumerateLicensedUsers: []gax.CallOption{ },  
        GetOperation:      []gax.CallOption{ },  
    }  
}
```

```
func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {  
    return  
&LicenseManagementCallOptions{  
        GetLicensePool:    []gax.CallOption{ },  
        UpdateLicensePool: []gax.CallOption{ },  
        Assign:            []gax.CallOption{ },  
    }  
}
```



```

Unassign:      []gax.CallOption{ },
EnumerateLicensedUsers: []gax.CallOption{ },
GetOperation:  []gax.CallOption{ },
}
}

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
    Unassign(context.Context, *procurementpb.UnassignRequest,
...gax.CallOption) (*procurementpb.UnassignResponse, error)
    EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
    GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseManagementClient

    // The call options for this service.
    CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
    Close() error {
        return c.internalClient.Close()
    }
}

```

```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
    UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
    return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
    return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    return c.internalClient.EnumerateLicensedUsers(ctx,
        req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.

```

```

func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
// over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementGRPCClient struct {
    // Connection pool of gRPC connections to the service.
    connPool gtransport.ConnPool

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    // The gRPC API client.
    licenseManagementClient procurementpb.LicenseManagementServiceClient

    operationsClient longrunningpb.OperationsClient

    //
    // The x-goog-* metadata to be sent with each request.
    xGoogHeaders []string

    logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
    clientOpts := defaultLicenseManagementGRPCClientOptions()
    if newLicenseManagementClientHook != nil {
        hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{ })
        if err != nil {
            return nil, err
        }
        clientOpts = append(clientOpts, hookOpts...)
    }

    connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
    if err != nil {
        return nil, err
    }

```

```

client := LicenseManagementClient{ CallOptions: defaultLicenseManagementCallOptions()}

c := &licenseManagementGRPCClient{
    connPool:
        connPool,
    licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
    CallOptions:            &client.CallOptions,
    logger:                 internaloption.GetLogger(opts),
    operationsClient:       longrunningpb.NewOperationsClient(connPool),
}
c.setGoogleClientInfo()

client.internalClient = c

return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
    return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{ "gl-go", gax.GoVersion }, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
    grpc.Version)
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
    return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

```

```

// The http client.
httpClient *http.Client

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicenseManagementClient
CallOptions **LicenseManagementCallOptions

logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicenseManagementClient, error) {
    clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseManagementRESTCallOptions()
    c := &licenseManagementRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
        logger:    internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
        internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

```

```

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
// returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
    return nil
}

func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
        return err
    }, opts...)
    if err != nil {
        return
        nil, err
    }
}

```

```

return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
        return err
    }, opts...)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
    var resp *procurementpb.AssignResponse
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
        return err
    }, opts...)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

```

```

hds
= append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
var resp *procurementpb.UnassignResponse
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    var err error
    resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
    return err
}, opts...)
if err != nil {
    return nil, err
}
return resp, nil
}

```

```

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

```

```

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOptions).EnumerateLicensedUsers)],
opts...)
it := &LicensedUserIterator{ }
req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
    resp := &procurementpb.EnumerateLicensedUsersResponse{ }
    if pageToken != "" {
        req.PageToken = pageToken
    }
    if pageSize > math.MaxInt32 {
        req.PageSize = math.MaxInt32
    } else if pageSize != 0 {
        req.PageSize = int32(pageSize)
    }
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
        return err
    }, opts...)
    if err != nil {
        return nil, "", err
    }
}

```



```

it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int,
pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
var resp *longrunningpb.Operation
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
var err error
resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {

```

```

    return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName())) }

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicensePool)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &procurementpb.LicensePool{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

```

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
m := protojson.MarshalOptions{ AllowPartial: true, UseEnumNumbers: true}
body := req.GetLicensePool()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")
if req.GetUpdateMask() != nil {
field, err := protojson.Marshal(req.GetUpdateMask())
if err != nil {
return nil, err
}
params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
}
httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

    params := url.Values{}
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)

```

```

hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp
:= &procurementpb.AssignResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return
        nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.UnassignResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {

```

```

it := &LicensedUserIterator{ }
req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
    resp := &procurementpb.EnumerateLicensedUsersResponse{ }
    if
    pageToken != "" {
        req.PageToken = pageToken
    }
    if pageSize > math.MaxInt32 {
        req.PageSize = math.MaxInt32
    } else if pageSize != 0 {
        req.PageSize = int32(pageSize)
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")
    if req.GetPageSize() != 0 {
        params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
    }
    if req.GetPageToken() != "" {
        params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := append(c.xGoogHeaders, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq,
    err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
    if err != nil {
        return err
    }

```

```

    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
    *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
    opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName())) }

```



```

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &longrunningpb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}
```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"

```

```

durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {

```

```

    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
    // Allow automatic assignments triggered by data plane operations.

```

```

AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if

```

```

x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
license pool.
type GetLicensePoolRequest struct {

```



```

state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. The name of the license pool to get.
// Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
}

```

```

return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

```

unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.

```

```

Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
*x = UnassignRequest{ }
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

```

```

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```



```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24

```

```

// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
if x != nil {
return x.Username
}
return ""
}

```

```

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procedure.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procedure_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func

```

```

(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
        0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
        0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
        0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
        0x6f,
    }

```

0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,  
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,  
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,  
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,  
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,  
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,  
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,  
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,  
0x62, 0x75, 0x66, 0x2f, 0x64,  
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,  
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,  
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,  
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,  
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,  
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,  
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,  
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,  
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,  
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,  
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,  
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73,  
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,  
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,  
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,  
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,  
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,  
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,  
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,  
0x03, 0xe0, 0x41, 0x01,  
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,  
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0x74, 0x53, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x12, 0xd4, 0x01, 0x0a, 0x0e, 0x47, 0x65, 0x74, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x44, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x47, 0x65, 0x74, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3a, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x40, 0xda, 0x41, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x33, 0x12, 0x31, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x6e, 0x61, 0x6d, 0x65, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x70, 0x6f, 0x6f, 0x6c, 0x2c, 0x75, 0x70, 0x64, 0x61, 0x74, 0x65, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x50, 0x3a, 0x0c, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x70, 0x6f, 0x6f, 0x6c, 0x32, 0x40, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x70, 0x6f, 0x6f, 0x6c, 0x2e, 0x6e, 0x61, 0x6d, 0x65, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x2f, 0x2a, 0x7d, 0x12, 0xdf, 0x01, 0x0a, 0x06, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73, 0x65, 0x22, 0x58, 0xda, 0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f, 0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f,

0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,  
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,  
0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,  
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0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,  
0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65, 0x73, 0x74, 0x1a, 0x3f, 0x2e, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
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0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x55, 0x6e, 0x61,  
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0x6f, 0x6e, 0x73, 0x65, 0x22, 0x5a, 0xda,  
0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,  
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0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,  
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0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,  
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0x65, 0x6e,  
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,  
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,  
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,  
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,  
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,  
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0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,  
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,  
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,  
0x2a, 0x2f, 0x6f,  
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,  
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,  
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0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,  
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,  
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,  
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,  
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,  
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0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,

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0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
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0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
}

```

```

(*UpdateLicensePoolRequest)(nil),          // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),                     // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),                   // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),                  // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),                 // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil),     // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil),    // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),            // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),            // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),              // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest

```

```

4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

```

```

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums:    0,

```

```

    NumMessages: 13,
    NumExtensions: 0,
    NumServices: 1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
  }.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
  // Gets the license pool.
  GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
  // Updates the license pool if one exists for this Order.
  UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
  error)
  // Assigns a license to a user.
  Assign(ctx
  context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
  // Unassigns a license from a user.
  Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
  // Enumerates all users assigned a license.
  EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
  cc grpc.ClientConnInterface

```

```

}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }

```



```

    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

```

```

}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler

```

```

:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)

```

```

if err := dec(in); err != nil {
    return nil, err
}
if
interceptor == nil {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"

```

```

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,

```

```

Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

```

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)

```



```

(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {

```

```

// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

```

```

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
// with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.

```

```

func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
        if err != nil {
            return err
        }

        if err := unmarshal(buf,
resp); err != nil {
            return err
        }

        return nil
    })

```

```

    }, opts...)
    if e != nil {
        return nil, e
    }
    op := &Operation{
        &globalOperationsHandle{
            c:    c.operationClient,
            proto: resp,
            project: req.GetProject(),
        },
    }
    return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
    hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {

```

```

    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

```

```

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```



```
// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
resp := &computepb.LicensesListResponse{}
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32
{
req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
```

```

client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This

```

resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
        if err != nil {
            return err
        }
    })
    if

```

```

err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }

```

```

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

```

```

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
    }
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
// Copyright 2024 Google LLC
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// you may not use this file except in compliance with the License.
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//   https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

```

```

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```



```

defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        //
        TODO: Use resp.
        _ = resp
    }
}

```

```

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
//  source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
    }

```

```

2:
"GROUP",
3: "EVERYONE",
}
Permission_GrantType_value = map[string]int32{
    "GRANTEE_TYPE_UNSPECIFIED": 0,
    "USER":                      1,
    "GROUP":                     2,
    "EVERYONE":                  3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1

```

```

// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

```

```

}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
}

```

```

mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

```

```

}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54,
    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,

```

```

0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums: 2,
            NumMessages: 1,
            NumExtensions: 0,
            NumServices: 0,
        },
        GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
    = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```



# 1.378 github.com/azure/azure-sdk-for-go/sdk/azcore 1.17.0

## 1.378.1 Available under license :

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Licensed under the MIT License.

//go:build go1.18

// +build go1.18

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// Licensed under the MIT License. See License.txt in the project root for license information.

// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.

// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (

"context"

"errors"

"fmt"

azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/to"

"github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"

"net/http"

"net/url"

"regexp"

)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.

type LicensesServer struct {

// BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate

// HTTP status codes to indicate success:

http.StatusOK

BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters armhybridcompute.License, options \*armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp azfake.ErrorResponder)

// BeginDelete is the fake for method LicensesClient.BeginDelete

// HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent

BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options

\*armhybridcompute.LicensesClientBeginDeleteOptions) (resp

azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

```

// Get is the fake for method LicensesClient.Get
// HTTP status codes to indicate success: http.StatusOK
Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
errResp azfake.ErrorResponder)

// NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
// HTTP status codes to indicate success: http.StatusOK
NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

// NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
// HTTP status codes to indicate success: http.StatusOK
NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

// BeginUpdate is the fake for method LicensesClient.BeginUpdate
// HTTP status codes to indicate success: http.StatusOK
BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

// BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
// HTTP status codes to indicate success: http.StatusOK
BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
{
return &LicensesServerTransport{
srv:          srv,
beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
beginDelete:    newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
newListBySubscriptionPager:

```

```

newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
beginUpdate:          newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
}
}

```

```

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
instead.

```

```

type LicensesServerTransport struct {
    srv          *LicensesServer
beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
beginDelete      *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
beginUpdate      *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

```

```

// Do implements the policy.Transporter interface for LicensesServerTransport.

```

```

func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
    rawMethod := req.Context().Value(runtime.CtxAPINameKey{ })
    method,
    ok := rawMethod.(string)
    if !ok {
        return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
    }
}

```

```

var resp *http.Response
var err error

```

```

switch method {
case "LicensesClient.BeginCreateOrUpdate":
    resp, err = l.dispatchBeginCreateOrUpdate(req)
case "LicensesClient.BeginDelete":
    resp, err = l.dispatchBeginDelete(req)
case "LicensesClient.Get":
    resp, err = l.dispatchGet(req)
case "LicensesClient.NewListByResourceGroupPager":
    resp, err = l.dispatchNewListByResourceGroupPager(req)
case "LicensesClient.NewListBySubscriptionPager":
    resp, err = l.dispatchNewListBySubscriptionPager(req)
case "LicensesClient.BeginUpdate":

```

```

    resp, err = l.dispatchBeginUpdate(req)
case "LicensesClient.BeginValidateLicense":
    resp, err = l.dispatchBeginValidateLicense(req)
default:
    err = fmt.Errorf("unhandled API %s", method)
}

if err != nil {
    return nil, err
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
*http.Request) (*http.Response, error) {
    if l.srv.BeginCreateOrUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
    }
    beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
    if beginCreateOrUpdate == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
        if err != nil {
            return nil, err
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if err != nil {
            return
        }
        licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
        nil)
        if respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginCreateOrUpdate = &respr
    }
}

```

```

l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.beginCreateOrUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {
    l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
    if l.srv.BeginDelete
    == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
    }
    beginDelete := l.beginDelete.get(req)
    if beginDelete == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\_a-zA-Z0-9~% @]+)`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if err != nil {
            return nil, err
        }
        licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
        if
        respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
    }
}

```

```

beginDelete = &respr
l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
    l.beginDelete.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK, http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
    l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
    if l.srv.Get == nil {
        return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
    }
    const regexStr = `^/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)$`
    regex
    := regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 3 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
    if respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    respContent := server.GetResponseContent(respr)
    if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {

```

```

    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
}
resp, err := server.MarshalResponseAsJSON(respContent,
server.GetResponse(respr).License, req)
if err != nil {
    return nil, err
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
    if l.srv.NewListByResourceGroupPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
    }
    newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
    if newListByResourceGroupPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-
9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-
9~% @ ]+)/providers/Microsoft.HybridCompute/licenses`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 2 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if
err != nil {
            return nil, err
        }
        resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
        newListByResourceGroupPager = &resp
        l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
        server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
            page.NextLink = to.Ptr(createLink())
        })
    }
    resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
    if err != nil {
        return nil, err
    }
    if !contains([]int{http.StatusOK}, resp.StatusCode) {
        l.newListByResourceGroupPager.remove(req)
        return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
    }
}

```

```

if !server.PagerResponderMore(newListByResourceGroupPager) {
    l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
    if l.srv.NewListBySubscriptionPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
    }
    newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
    if newListBySubscriptionPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+)/providers/Microsoft\\HybridCompute/licenses`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resp := l.srv.NewListBySubscriptionPager(nil)
        newListBySubscriptionPager = &resp
        l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
        server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
        *armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
            page.NextLink = to.Ptr(createLink())
        })
    }
    resp,
    err := server.PagerResponderNext(newListBySubscriptionPager, req)
    if err != nil {
        return nil, err
    }
    if !contains([]int{http.StatusOK}, resp.StatusCode) {
        l.newListBySubscriptionPager.remove(req)
        return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
        resp.StatusCode)}
    }
    if !server.PagerResponderMore(newListBySubscriptionPager) {
        l.newListBySubscriptionPager.remove(req)
    }
    return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
    if l.srv.BeginUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
    }
}

```



```

beginUpdate := l.beginUpdate.get(req)
if beginUpdate == nil {
    const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-9~% @]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\[_a-zA-Z0-9~% @]+)`
    regex
:= regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 3 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
    if err != nil {
        return nil, err
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
    if respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    beginUpdate = &respr
    l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
    l.beginUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
    l.beginUpdate.remove(req)
}

return resp, nil
}

```

```

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
    if l.srv.BeginValidateLicense == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
    }
    beginValidateLicense := l.beginValidateLicense.get(req)
    if beginValidateLicense == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+)/providers/Microsoft\\HybridCompute/validateLicense`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body,
        err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
        if respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginValidateLicense = &respr
        l.beginValidateLicense.add(req, beginValidateLicense)
    }

    resp, err := server.PollerResponderNext(beginValidateLicense, req)
    if err != nil {
        return nil, err
    }

    if !contains([]int{http.StatusOK}, resp.StatusCode) {
        l.beginValidateLicense.remove(req)
        return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK", resp.StatusCode)}
    }
    if !server.PollerResponderMore(beginValidateLicense) {
        l.beginValidateLicense.remove(req)
    }

    return resp, nil
}

```

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aztemplate

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```
{
  "main": "dist/src/index.js",
  "dependencies": {
    "@azure-tools/typespec-go": "0.4.2"
  },
  "devDependencies": {
    "@azure-tools/typespec-autorest": "0.54.0",
    "@azure-tools/typespec-azure-core": "0.54.0",
    "@azure-tools/typespec-azure-resource-manager": "0.54.0",
    "@azure-tools/typespec-azure-rulesets": "0.54.0",
    "@azure-tools/typespec-client-generator-core": "0.54.0",
    "@typespec/compiler": "1.0.0-rc.0",
    "@typespec/http": "1.0.0-rc.0",
    "@typespec/openapi": "1.0.0-rc.0",
    "@typespec/rest": "0.68.0",
    "@typespec/versioning": "0.68.0",
    "@typespec/streams": "0.68.0",
    "@typespec/events": "0.68.0",
    "@typespec/sse": "0.68.0",
```

```
"@azure-tools/typespec-liftr-base": "0.8.0"  
}  
}  
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```

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```

//go:build go1.18
// +build go1.18

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package armhybridcompute

import (
    "context"
    "errors"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
    "net/http"
    "net/url"
    "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
    internal    *arm.Client
    subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
// - subscriptionID - The ID of the target
// subscription.
// - credential - used to authorize requests. Usually a credential from azidentity.
// - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
    cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
    if err != nil {
        return nil, err
    }
    client := &LicensesClient{
        subscriptionID: subscriptionID,
        internal:      cl,
    }
    return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.

```

```

// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - parameters - Parameters supplied to the Create license operation.
// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
    }
}

```

```

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginCreateOrUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {

```

```

    return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
    err = runtime.NewResponseError(httpResp)
    return nil, err
}
return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx,
http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }
    return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview

```

```

// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
            Tracer: client.internal.Tracer(),
        })
    }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
    var err error
    const
        operationName = "LicensesClient.BeginDelete"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
}

```

```

    }
    return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if
client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}

// Get - Retrieves information about the view of a license.
//
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
    var err error
    const operationName = "LicensesClient.Get"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)

```

```

defer func() { endSpan(err) }()
req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
if err != nil {
    return LicensesClientGetResponse{ }, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil
{
    return LicensesClientGetResponse{ }, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
    err = runtime.NewResponseError(httpResp)
    return LicensesClientGetResponse{ }, err
}
resp, err := client.getHandleResponse(httpResp)
return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if
licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}

```

```

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
    result := LicensesClientGetResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
        return LicensesClientGetResponse{}, err
    }
    return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
// LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
        More: func(page LicensesClientListByResourceGroupResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
        Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
            ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
            nextLink := ""
            if page != nil {
                nextLink = *page.NextLink
            }
            resp,
            err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
                return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
            }, nil)
            if err != nil {
                return LicensesClientListByResourceGroupResponse{}, err
            }
            return client.listByResourceGroupHandleResponse(resp)
        },
        Tracer: client.internal.Tracer(),
    })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
    urlPath :=

```

```

"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licenses"
if resourceGroupName == "" {
    return nil, errors.New("parameter resourceGroupName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if
client.subscriptionID == "" {
    return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
    result := LicensesClientListByResourceGroupResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
        return LicensesClientListByResourceGroupResponse{}, err
    }
    return
    result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
        More: func(page LicensesClientListBySubscriptionResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
        Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
            ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")

```



```

nextLink := ""
if page != nil {
    nextLink = *page.NextLink
}
resp,
err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
}, nil)
if err != nil {
    return LicensesClientListBySubscriptionResponse{ }, err
}
return client.listBySubscriptionHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
})
}

```

// listBySubscriptionCreateRequest creates the ListBySubscription request.

```

func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}

```

// listBySubscriptionHandleResponse handles the ListBySubscription response.

```

func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
    result := LicensesClientListBySubscriptionResponse{ }
    if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
        return LicensesClientListBySubscriptionResponse{ }, err
    }
    return result, nil
}

```

```

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName
//   - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
            Tracer:
client.internal.Tracer(),
        })
    }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)

```

```

if err != nil {
    return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
    err = runtime.NewResponseError(httpResp)
    return
    nil, err
}
return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }
    return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview

```

```

// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
if options == nil || options.ResumeToken == "" {
resp, err := client.validateLicense(ctx, parameters, options)
if err != nil {
return nil, err
}
poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
Tracer: client.internal.Tracer(),
})
return poller, err
} else {
return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
Tracer: client.internal.Tracer(),
})
}
}

```

// ValidateLicense - The operation to validate a license.

// If the operation fails it returns an \*azcore.ResponseError type.

//

// Generated from API version 2024-07-31-preview

```

func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
var err error
const operationName = "LicensesClient.BeginValidateLicense"
ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
if err != nil {
return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
err = runtime.NewResponseError(httpResp)
return nil, err
}

```

```

}
return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
    if client.subscriptionID
    == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }
    return req, nil
}

```

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//go:build go1.18

// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.

// Changes may cause incorrect behavior and will be lost if the code is regenerated.

// DO NOT EDIT.

package armhybridcompute\_test

import (  
"context"

```

"log"

"github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
"github.com/Azure/azure-sdk-for-go/sdk/azidentity"
"github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/armhybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err !=
    nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
        Location: to.Ptr("eastus2euap"),
        Properties: &armhybridcompute.LicenseProperties{
            LicenseDetails: &armhybridcompute.LicenseDetails{
                Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
                Edition:  to.Ptr(armhybridcompute.LicenseEditionDatacenter),
                Processors: to.Ptr[int32](6),
                State:    to.Ptr(armhybridcompute.LicenseStateActivated),
                Target:   to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
            },
            LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
        },
    }, nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    res, err := poller.PollUntilDone(ctx, nil)
    if err !=
    nil {
        log.Fatalf("failed to pull the result: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //     Name: to.Ptr("{licenseName}"),

```

```

// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//     Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//     AssignedLicenses: to.Ptr[int32](2),
//     Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//     ImmutableID: to.Ptr("<generated Guid>"),
//     Processors: to.Ptr[int32](6),
//
//     State: to.Ptr(armhybridcompute.LicenseStateActivated),
//     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
"{licenseName}", armhybridcompute.License{
Location: to.Ptr("eastus2euap"),
Properties: &armhybridcompute.LicenseProperties{
LicenseDetails: &armhybridcompute.LicenseDetails{
Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
Processors: to.Ptr[int32](6),
State: to.Ptr(armhybridcompute.LicenseStateActivated),
Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
},
LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
},
}, nil)
if err != nil {

```



```

log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated
from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\_Update.json
func ExampleLicensesClient_BeginUpdate() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}

```

```

poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
    Properties: &armhybridcompute.LicenseUpdateProperties{
        LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
            Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
            Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
            Processors:
to.Ptr[int32](6),
            State:    to.Ptr(armhybridcompute.LicenseStateActivated),
            Target:  to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
        },
        LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
    },
}, nil)
if err != nil {
    log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
    log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//     Name: to.Ptr("{licenseName}"),
//     Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//     ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
//     Location: to.Ptr("eastus2euap"),
//     Properties: &armhybridcompute.LicenseProperties{
//         LicenseDetails: &armhybridcompute.LicenseDetails{
//             Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//             AssignedLicenses: to.Ptr[int32](8),
//             Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//             ImmutableID: to.Ptr("<generated Guid>"),
//             Processors: to.Ptr[int32](6),
//             State: to.Ptr(armhybridcompute.LicenseStateActivated),
//             Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//         },
//         LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//         TenantID: to.Ptr("{tenantId}"),
//     },
// }

```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if
    err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //   Name: to.Ptr("{licenseName}"),
    //   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
    //   ID:
    to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
    enses/{licenseName}"),
    //
    //   Location: to.Ptr("eastus2euap"),
    //   Properties: &armhybridcompute.LicenseProperties{
    //     LicenseDetails: &armhybridcompute.LicenseDetails{
    //       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    //       AssignedLicenses: to.Ptr[int32](8),
    //       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    //       ImmutableID: to.Ptr("<generated Guid>"),
    //       Processors: to.Ptr[int32](6),
    //       State: to.Ptr(armhybridcompute.LicenseStateActivated),
    //       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
    //     },
    //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
    //     TenantID: to.Ptr("{tenantId}"),
    //   },
    // }

    // Generated from example definition: https://github.com/Azure/azure-rest-api-
```

```

specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    _, err = poller.PollUntilDone(ctx, nil)
    if err != nil {
        log.Fatalf("failed to pull the result: %v", err)
    }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if
    err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
    for pager.More() {
        page, err := pager.NextPage(ctx)
        if err != nil {
            log.Fatalf("failed to advance page: %v", err)
        }
        for _, v := range page.Value {
            // You could use page here. We use blank identifier for just demo purposes.
            _ = v
        }
    }
}

```

// If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.  
Please pay attention that all the values in the output are fake values for just demo purposes.

```
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
//   Name: to.Ptr("{licenseName}"),
//
//   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//   Location: to.Ptr("eastus2euap"),
//   Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//       AssignedLicenses: to.Ptr[int32](8),
//       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//       ImmutableID: to.Ptr("<generated Guid>"),
//       Processors: to.Ptr[int32](6),
//       State: to.Ptr(armhybridcompute.LicenseStateActivated),
//       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//     },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenantId}"),
//   },
// },
// }
}
```

// Generated from example definition: [https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\\_ListBySubscription.json](https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ListBySubscription.json)

```
func
ExampleLicensesClient_NewListBySubscriptionPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
page, err := pager.NextPage(ctx)
}
```

```

if err != nil {
    log.Fatalf("failed to advance page: %v", err)
}
for _, v := range page.Value {
    // You could use page here. We use blank identifier for just demo purposes.
    _ = v
}
// If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// page.LicensesListResult = armhybridcompute.LicensesListResult{
//   Value: []*armhybridcompute.License{
//     {
//       Name: to.Ptr("{licenseName}"),
//       Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//       ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//       Location: to.Ptr("eastus2euap"),
//       Properties: &armhybridcompute.LicenseProperties{
//         LicenseDetails: &armhybridcompute.LicenseDetails{
//           Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//           AssignedLicenses: to.Ptr[int32](8),
//           Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//           ImmutableID: to.Ptr("<generated Guid>"),
//           Processors: to.Ptr[int32](6),
//           State: to.Ptr(armhybridcompute.LicenseStateActivated),
//           Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//         },
//         LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//         TenantID: to.Ptr("{tenantId}"),
//       },
//     },
//   },
// }
}

```

## 1.379 googlecloudgoiam 1.3.1

### 1.379.1 Available under license :

```

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}
```

```

}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }

```



```

resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
}

```

```

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after

```

```

// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
}

```

```

}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.

```

```

type LicenseCodesCallOptions struct {
    Get          []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max:     60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        TestIamPermissions: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close()
    error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

```

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx,
        req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

```

```

// The http client.
httpClient *http.Client

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions

logger *slog.Logger
}

// NewLicenseCodesRESTClient
// creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

//

```

```

setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
// returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

    hds
    = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)

```



```

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
// resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",

```

```

req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"

    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    gtransport
    "google.golang.org/api/transport/grpc"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
    GetLicensePool      []gax.CallOption
    UpdateLicensePool   []gax.CallOption
    Assign              []gax.CallOption
    Unassign            []gax.CallOption
    EnumerateLicensedUsers []gax.CallOption
    GetOperation        []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
        internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
    }
}

```



```
,
internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()),
internaloption.EnableJwtWithScope(),
internaloption.EnableNewAuthLibrary(),
option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
    grpc.MaxCallRecvMsgSize(math.MaxInt32))),
}
}
```

```
func
defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
return &LicenseManagementCallOptions{
    GetLicensePool:    []gax.CallOption{ },
    UpdateLicensePool: []gax.CallOption{ },
    Assign:            []gax.CallOption{ },
    Unassign:          []gax.CallOption{ },
    EnumerateLicensedUsers: []gax.CallOption{ },
    GetOperation:      []gax.CallOption{ },
}
}
```

```
func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
return
&LicenseManagementCallOptions{
    GetLicensePool:    []gax.CallOption{ },
    UpdateLicensePool: []gax.CallOption{ },
    Assign:            []gax.CallOption{ },
    Unassign:          []gax.CallOption{ },
    EnumerateLicensedUsers: []gax.CallOption{ },
    GetOperation:      []gax.CallOption{ },
}
}
```

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce Consumer Procurement API.

```
type internalLicenseManagementClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
```

```

Unassign(context.Context, *procurementpb.UnassignRequest,
...gax.CallOption) (*procurementpb.UnassignResponse, error)
EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseManagementClient

    // The call options for this service.
    CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
    Close() error {
        return c.internalClient.Close()
    }

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {

```

```

return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient) UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
    return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req *procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    return c.internalClient.EnumerateLicensedUsers(ctx, req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseManagementGRPCClient struct {
    // Connection pool of gRPC connections to the service.
    connPool gtransport.ConnPool

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    // The gRPC API client.

```

```

licenseManagementClient procurementpb.LicenseManagementServiceClient

operationsClient longrunningpb.OperationsClient

//
The x-goog-* metadata to be sent with each request.
xGoogHeaders []string

logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
    clientOpts := defaultLicenseManagementGRPCClientOptions()
    if newLicenseManagementClientHook != nil {
        hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{})
        if err != nil {
            return nil, err
        }
        clientOpts = append(clientOpts, hookOpts...)
    }

    connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
    if err != nil {
        return nil, err
    }
    client := LicenseManagementClient{ CallOptions: defaultLicenseManagementCallOptions() }

    c := &licenseManagementGRPCClient{
        connPool:
            connPool,
        licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
        CallOptions:             &client.CallOptions,
        logger:                  internaloption.GetLogger(opts),
        operationsClient:        longrunningpb.NewOperationsClient(connPool),
    }
    c.setGoogleClientInfo()

    client.internalClient = c

    return &client, nil
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
    return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "grpc",
        grpc.Version)
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
    return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)

```

```

(*LicenseManagementClient, error) {
    clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseManagementRESTCallOptions()
    c := &licenseManagementRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.

```

```

c.httpClient = nil
return nil
}

// Connection
returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
    return nil
}

func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
        return err
    }, opts...)
    if err != nil {
        return
    nil, err
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,

```

```
"UpdateLicensePool")
```

```
    return err
```

```
  }, opts...)
```

```
  if err != nil {
```

```
    return nil, err
```

```
  }
```

```
  return resp, nil
```

```
}
```

```
func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
```

```
req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
```

```
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}
```

```
hds = append(c.xGoogHeaders, hds...)
```

```
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
```

```
opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
```

```
var resp *procurementpb.AssignResponse
```

```
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    var err error
```

```
    resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
```

```
    return err
```

```
  }, opts...)
```

```
  if err != nil {
```

```
    return nil, err
```

```
  }
```

```
  return resp, nil
```

```
}
```

```
func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
```

```
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
```

```
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}
```

```
hds
```

```
= append(c.xGoogHeaders, hds...)
```

```
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
```

```
opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
```

```
var resp *procurementpb.UnassignResponse
```

```
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    var err error
```

```
    resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
```

```
    return err
```

```
  }, opts...)
```

```
  if err != nil {
```

```
    return nil, err
```

```
  }
```

```
  return resp, nil
```

```
}
```



```

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
tions).EnumerateLicensedUsers)],
opts...)
it := &LicensedUserIterator{ }
req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
resp := &procurementpb.EnumerateLicensedUsersResponse{ }
if pageToken != "" {
req.PageToken = pageToken
}
if pageSize > math.MaxInt32 {
req.PageSize = math.MaxInt32
} else if pageSize != 0 {
req.PageSize = int32(pageSize)
}
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
var err error
resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
return err
}, opts...)
if err != nil {
return nil, "", err
}

it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int,
pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

```

```

return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
var resp *longrunningpb.Operation
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
var err error
resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP

```

```

ool)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    m := protojson.MarshalOptions{ AllowPartial: true, UseEnumNumbers: true}
    body := req.GetLicensePool()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

```

```

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")
if req.GetUpdateMask() != nil {
    field, err := protojson.Marshal(req.GetUpdateMask())
    if err != nil {
        return nil, err
    }
    params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).UpdateLicensePool)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)

```

```

if e != nil {
    return nil, e
}
return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp
:= &procurementpb.AssignResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return
        nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &procurementpb.UnassignResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    it := &LicensedUserIterator{}
    req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
    unmarshalOptions := &protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
        resp := &procurementpb.EnumerateLicensedUsersResponse{}
        if
        pageToken != "" {
            req.PageToken = pageToken
        }
        if pageSize > math.MaxInt32 {
            req.PageSize = math.MaxInt32
        } else if pageSize != 0 {
            req.PageSize = int32(pageSize)
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err

```

```

}
baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

params := url.Values{}
params.Add("$alt", "json;enum-encoding=int")
if req.GetPageSize() != 0 {
    params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
}
if req.GetPageToken() != "" {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {

```



```

    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
*licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &longrunningpb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }

```

```

httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications
to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"

```

```

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

// The type of assignment protocol.
//
// Types that are assignable to AssignmentType:
//
// *AssignmentProtocol_ManualAssignmentType_
// *AssignmentProtocol_AutoAssignmentType_
AssignmentType
isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
}

```

```

}
return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
return x.ManualAssignmentType
}
return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
return x.AutoAssignmentType
}
return nil
}

type isAssignmentProtocol_AssignmentType interface {
isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state protoimpl.MessageState
sizeCache protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`

```

```

// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

```



```

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
}

```

Required. The list of fields to update.

```
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}
```

```
func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}
```

```
func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}
```

```
func (*UpdateLicensePoolRequest) ProtoMessage() {}
```

```
func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}
```

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor instead.

```
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}
```

```
func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}
```

```
func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
```

```

if x != nil {
    return x.UpdateMask
}
return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
    string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

```

```

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

```

```

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return

```



```

// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
*x = EnumerateLicensedUsersRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo()
== nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
return x.Parent
}
return ""
}

```

```

}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License

```

```

ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```

```

[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
    return ms
}

```

```

    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
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0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,  
0x64, 0x2e, 0x43,  
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,  
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,  
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,  
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,  
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,  
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,  
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,  
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,

```

0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),          // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),         // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),       // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask

```

```

(*timestamppb.Timestamp)(nil),          // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),            // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
    -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
    > google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
    google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
    google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
    google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
    -> google.protobuf.Timestamp
    9, // 7:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
    google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
    ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
    > google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
    google.cloud.commerce.consumer.procurement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
    -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    8, // 13:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
    e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    1, // 14:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
    google.cloud.commerce.consumer.procurement.v1.LicensePool
    1, // 15:
    google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
    google.cloud.commerce.consumer.procurement.v1.LicensePool
    5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
    google.cloud.commerce.consumer.procurement.v1.AssignResponse
    7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
    google.cloud.commerce.consumer.procurement.v1.UnassignResponse

```

```

10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

```

```

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

```



```

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

```

// LicenseManagementServiceServer is the server API for LicenseManagementService service.

```

type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)

```

```

if err := dec(in);
err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,

```

```

FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{ }, ctx context.Context, dec func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ },
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{ },
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

```

```

package compute_test

// Copyright 2024 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```

package compute

```

```

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

```

```

var
    newLicensesClientHook clientHook

```

```

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete []gax.CallOption
    Get []gax.CallOption

```

```

GetIamPolicy    []gax.CallOption
Insert          []gax.CallOption
List           []gax.CallOption
SetIamPolicy    []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
},

```

```

    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
    }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    }
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

```



```

// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

```

```

}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

```

```

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

callOpts := defaultLicensesRESTCallOptions()
c := &licensesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
CallOptions: &callOpts,
logger: internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

o := []option.ClientOption{
option.WithHTTPClient(httpClient),
option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
internaloption.EnableNewAuthLibrary(),
}
}
//

```

```

setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client

```

and context metadata.

```
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",  
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
hds = append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
```

```
headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
resp := &computepb.Operation{ }
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    if settings.Path != "" {
```

```
        baseUrl.Path = settings.Path
```

```
    }
```

```
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    httpReq = httpReq.WithContext(ctx)
```

```
    httpReq.Header = headers
```

```
    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    if err := unm.Unmarshal(buf,
```

```
resp); err != nil {
```

```
    return err
```

```
}
```

```
return nil
```

```
}, opts...)
```

```
if e != nil {
```

```
    return nil, e
```

```
}
```

```
op := &Operation{
```

```
    &globalOperationsHandle{
```

```
        c:    c.operationClient,
```

```
        proto: resp,
```

```
        project: req.GetProject(),
```

```
    },
```

```
}
```

```
return op, nil
```

```
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

        if err := unmarshal(buf, resp); err != nil {
            return err
        }

        return nil
    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource

exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
        if err != nil {
            return err
        }

        if err := unmarshalOptions.Unmarshal(buf, resp); err != nil {
```

```

    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx,
    hds...)
    opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```



```

    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c \*licensesRESTClient) List(ctx context.Context, req \*compute.LicenseListRequest, opts

```

...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*compute.LicenseListRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
        resp := &compute.LicenseListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32

```

```

{
    req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
    req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
    params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
}

```

```

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

```

```

// Build HTTP headers from client and context metadata.
hds
:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}

```

```

body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil

```

```

    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```



```

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }
    resp, err := c.Assign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()

```

```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
    dUsersRequest.
}
it := c.EnumerateLicensedUsers(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }

```

```

}
defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
    // TODO: Fill request struct fields.
    //
    See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
    quest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,
    err := c.Unassign(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &longrunningpb.GetOperationRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
    }
    resp, err := c.GetOperation(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

}

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

\_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

```

)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                    1,
        "GROUP":                   2,
        "EVERYONE":                3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

```

```

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":          2,
    }
)

```

```

"READER":      3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {

```

```

state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be
// generated on create. Examples:
//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,

```

0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,  
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,  
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,  
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,  
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,  
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,  
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,  
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,  
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,  
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,  
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,  
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,  
0x01, 0x01, 0x12,  
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,  
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,  
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,  
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,  
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,  
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,  
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,  
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,  
0x54,  
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,  
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,  
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,  
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,  
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,  
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,  
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,  
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,  
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,  
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0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,  
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,  
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,  
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,  
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,  
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,  
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,  
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,  
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,

```

0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

```



```

}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.380 cloud.google.com/go/monitoring 1.23.0

## 1.380.1 Available under license :

```

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```

```

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.35.2
// protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
    }

```

```

"GROUP",
3: "EVERYONE",
}
Permission_GrantType_value = map[string]int32{
"GRANTEE_TYPE_UNSPECIFIED": 0,
"USER": 1,
"GROUP": 2,
"EVERYONE": 3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
p := new(Permission_GrantType)
*p = x
return p
}

func (x Permission_GrantType) String() string {
return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.

```

```

Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

```

```

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

```

```

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
    0x4e,
    0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
    0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
    0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
    0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,

```

```

0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)

```



```

var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
    return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
        RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
        NumEnums: 2,
        NumMessages: 1,
        NumExtensions: 0,
        NumServices: 0,
    },
    GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
    EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options

```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &compute.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx

```

```

:= context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

```

```

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{

```

```

// TODO: Fill request struct fields.
// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        //
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after

```

```

// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        // https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.

```

```

// See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.

```



```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break

```

```

    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:

```

```
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/iterator"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

```

httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}

```

```

    }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.

```

```

//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

```

```

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.

```

```

httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {

```

```

return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```



```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client
and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}

```

```

op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
    hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

        if err := unmarshal(buf, resp); err != nil {

```

```

    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.

```

```

hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from
        client and context metadata.
        hds := append(c.xGoogHeaders, "Content-Type", "application/json")
        headers := gax.BuildHeaders(ctx, hds...)
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
```

```

    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
if err != nil {
    return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()

```

```

jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds
:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)

```



```

if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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```

```

// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request

```

```

struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
// Copyright 2025 Google LLC
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//
// https://www.apache.org/licenses/LICENSE-2.0
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```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"

    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    gtransport
    "google.golang.org/api/transport/grpc"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
    GetLicensePool []gax.CallOption
    UpdateLicensePool []gax.CallOption
    Assign []gax.CallOption
    Unassign []gax.CallOption
    EnumerateLicensedUsers []gax.CallOption
    GetOperation []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
        internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443"),
        ,
        internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
    }
}

```

```

internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()),
internaloption.EnableJwtWithScope(),
internaloption.EnableNewAuthLibrary(),
option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
    grpc.MaxCallRecvMsgSize(math.MaxInt32))),
}
}

```

```

func
defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
return &LicenseManagementCallOptions{
    GetLicensePool:    []gax.CallOption{ },
    UpdateLicensePool: []gax.CallOption{ },
    Assign:           []gax.CallOption{ },
    Unassign:         []gax.CallOption{ },
    EnumerateLicensedUsers: []gax.CallOption{ },
    GetOperation:     []gax.CallOption{ },
}
}

```

```

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
return
&LicenseManagementCallOptions{
    GetLicensePool:    []gax.CallOption{ },
    UpdateLicensePool: []gax.CallOption{ },
    Assign:           []gax.CallOption{ },
    Unassign:         []gax.CallOption{ },
    EnumerateLicensedUsers: []gax.CallOption{ },
    GetOperation:     []gax.CallOption{ },
}
}

```

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce Consumer Procurement API.

```

type internalLicenseManagementClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
    Unassign(context.Context, *procurementpb.UnassignRequest,
...gax.CallOption) (*procurementpb.UnassignResponse, error)
    EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)

```

```

*LicensedUserIterator
GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseManagementClient

    // The call options for this service.
    CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
    Close() error {
        return c.internalClient.Close()
    }

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
    *procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    return c.internalClient.GetLicensePool(ctx, req, opts...)
}

```

```

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient) UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
    return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req *procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    return c.internalClient.EnumerateLicensedUsers(ctx, req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseManagementGRPCClient struct {
    // Connection pool of gRPC connections to the service.
    connPool gtransport.ConnPool

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    // The gRPC API client.
    licenseManagementClient procurementpb.LicenseManagementServiceClient

    operationsClient longrunningpb.OperationsClient

```



```

//
The x-goog-* metadata to be sent with each request.
xGoogHeaders []string

logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
    clientOpts := defaultLicenseManagementGRPCClientOptions()
    if newLicenseManagementClientHook != nil {
        hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{ })
        if err != nil {
            return nil, err
        }
        clientOpts = append(clientOpts, hookOpts...)
    }

    connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
    if err != nil {
        return nil, err
    }
    client := LicenseManagementClient{ CallOptions: defaultLicenseManagementCallOptions()

    c := &licenseManagementGRPCClient{
        connPool:
            connPool,
        licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
        CallOptions:             &client.CallOptions,
        logger:                  internaloption.GetLogger(opts),
        operationsClient:        longrunningpb.NewOperationsClient(connPool),
    }
    c.setGoogleClientInfo()

    client.internalClient = c

    return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.

```

```

func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
    return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
        grpc.Version)
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
    return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicenseManagementClient, error) {
    clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {

```

```

    return nil, err
}

callOpts := defaultLicenseManagementRESTCallOptions()
c := &licenseManagementRESTClient{
    endpoint:    endpoint,
    httpClient:  httpClient,
    CallOptions: &callOpts,
    logger:     internaloption.GetLogger(opts),
}
c.setGoogleClientInfo()

return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

```

```

// Connection
returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
    return nil
}

func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
        return err
    }, opts...)
    if err != nil {
        return
    }
    return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
        return err
    }, opts...)
    if err != nil {

```

```

    return nil, err
}
return resp, nil
}

```

```

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
var resp *procurementpb.AssignResponse
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    var err error
    resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
    return err
}, opts...)
if err != nil {
    return nil, err
}
return resp, nil
}

```

```

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds
= append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
var resp *procurementpb.UnassignResponse
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    var err error
    resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
    return err
}, opts...)
if err != nil {
    return nil, err
}
return resp, nil
}

```

```

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

```

```

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOptions).EnumerateLicensedUsers)],
opts...)
it := &LicensedUserIterator{ }
req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
    resp := &procurementpb.EnumerateLicensedUsersResponse{ }
    if pageToken != "" {
        req.PageToken = pageToken
    }
    if pageSize > math.MaxInt32 {
        req.PageSize = math.MaxInt32
    } else if pageSize != 0 {
        req.PageSize = int32(pageSize)
    }
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
        return err
    }, opts...)
    if err != nil {
        return nil, "", err
    }

    it.Response = resp
    return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int,
pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

```

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
var resp *longrunningpb.Operation
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
var err error
resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{ }

```

```

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    body := req.GetLicensePool()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

    params := url.Values{}
    params.Add("$alt", "json;enum-encoding=int")
    if req.GetUpdateMask() != nil {

```



```

field, err := protojson.Marshal(req.GetUpdateMask())
if err != nil {
    return nil, err
}
params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

```

```

}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp
:= &procurementpb.AssignResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
        if err != nil {
            return err
        }
    })

```

```

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return
        nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &procurementpb.UnassignResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(),

```

```

bytes.NewReader(jsonReq))
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    it := &LicensedUserIterator{}
    req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
    unmarshalOptions := &protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
        resp := &procurementpb.EnumerateLicensedUsersResponse{}
        if
        pageToken != "" {
            req.PageToken = pageToken
        }
        if pageSize > math.MaxInt32 {
            req.PageSize = math.MaxInt32
        } else if pageSize != 0 {
            req.PageSize = int32(pageSize)
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

        params := url.Values{}

```

```

params.Add("$alt", "json;enum-encoding=int")
if req.GetPageSize() != 0 {
    params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
}
if req.GetPageToken() != "" {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

```

```

}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
    *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
    opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &longrunningpb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
    error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")

```

```

if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.EnumerateLicensedUsersRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
    dUsersRequest.
}
for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}

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```



```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType

```

```

isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
}

```

```

return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
return x.AutoAssignmentType
}
return nil
}

type isAssignmentProtocol_AssignmentType interface {
isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state protoimpl.MessageState
sizeCache protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`

```

```

// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {

```

```

    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
        &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if
ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=

```

```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//

```

```

[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

```



```

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
*x = AssignResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {

```

```

ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

```

```

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

```

```

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
    json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
    json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if

```

```

x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
        []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
// ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

// The list of licensed users.
LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
// A token that can be sent as `page_token` to retrieve the next page.
// If this field is omitted, there are no subsequent pages.
NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
*x = EnumerateLicensedUsersResponse{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
if x != nil {
return x.LicensedUsers
}
}

```



```

return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
if x != nil {
return x.InactiveLicenseTtl
}
return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
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0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
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0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
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0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,

```

0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,  
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,  
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0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,  
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,  
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,  
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,  
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,  
0x03, 0xe0, 0x41, 0x01,  
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,  
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0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,  
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0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,  
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0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,  
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0x70, 0x6f, 0x6e, 0x73, 0x65, 0x22, 0x58, 0xda, 0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,  
0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d, 0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x3f,  
0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,  
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,  
0x2f, 0x2a, 0x2f, 0x6f,  
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0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,  
0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,  
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0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,  
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0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,  
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,  
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0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,  
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0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,  
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0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,  
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,  
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,  
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,  
0x64, 0x2e, 0x43,  
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,  
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,  
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,  
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,  
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0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,  
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,  
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,  
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,  
}

```
var (  
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce  
  sync.Once  
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
```



```

= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(func() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData)
})
return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),
        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil),
        // 8:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil),
        // 10:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil),
        // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil),
        // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),
        // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
    google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name

```

-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType  
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto\_assignment\_type:type\_name -  
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType  
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license\_assignment\_protocol:type\_name ->  
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol  
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license\_pool:type\_name ->  
google.cloud.commerce.consumer.procurement.v1.LicensePool  
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update\_mask:type\_name ->  
google.protobuf.FieldMask  
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign\_time:type\_name ->  
google.protobuf.Timestamp  
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent\_usage\_time:type\_name  
-> google.protobuf.Timestamp  
9, // 7:  
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed\_users:type\_name ->  
google.cloud.commerce.consumer.procurement.v1.LicensedUser  
15, // 8:  
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive\_license\_ttl:t  
ype\_name -> google.protobuf.Duration  
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input\_type -  
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest  
3, // 10:  
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input\_type ->  
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest  
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input\_type ->  
google.cloud.commerce.consumer.procurement.v1.AssignRequest  
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input\_type  
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest  
8, // 13:  
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input\_ty  
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest  
1, // 14:  
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output\_type ->  
google.cloud.commerce.consumer.procurement.v1.LicensePool  
1, // 15:  
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output\_type ->  
google.cloud.commerce.consumer.procurement.v1.LicensePool  
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output\_type ->  
google.cloud.commerce.consumer.procurement.v1.AssignResponse  
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output\_type ->  
google.cloud.commerce.consumer.procurement.v1.UnassignResponse  
10, // 18:  
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output\_ty  
pe  
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse  
14, // [14:19] is the sub-list for method output\_type  
9, // [9:14] is the sub-list for method input\_type  
9, // [9:9] is the sub-list for extension type\_name

```

9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}

func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.

```

```

const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out, opts...)
}

```

```

    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)

```

```

(*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
}

```

```

info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_Unassign_Handler(srv
interface{ }, ctx context.Context, dec func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ },
error) {
in := new(UnassignRequest)
if err := dec(in); err != nil {
return nil, err
}
if interceptor == nil {
return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
in := new(EnumerateLicensedUsersRequest)
if err := dec(in); err != nil {
return nil, err
}
if
interceptor == nil {
return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
Server:    srv,
FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

```

```

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
HandlerType: (*LicenseManagementServiceServer)(nil),
Methods: []grpc.MethodDesc{
{

```



```

MethodName: "GetLicensePool",
Handler:  _LicenseManagementService_GetLicensePool_Handler,
},
{
MethodName: "UpdateLicensePool",
Handler:  _LicenseManagementService_UpdateLicensePool_Handler,
},
{
MethodName: "Assign",
Handler:
  _LicenseManagementService_Assign_Handler,
},
{
MethodName: "Unassign",
Handler:  _LicenseManagementService_Unassign_Handler,
},
{
MethodName: "EnumerateLicensedUsers",
Handler:  _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams:  []grpc.StreamDesc{ },
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    (
        // Verify that this generated code is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
        // Verify that runtime/protoimpl is sufficiently up-to-date.
        _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
    )

    // Defines types of the grantee of this permission.
    type Permission_GranteeType int32

    const (
        // The default value. This value is unused.
        Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
        // Represents a user. When set, you must provide email_address for the user.
        Permission_USER Permission_GranteeType = 1
        // Represents a group. When set, you must provide email_address for the
        // group.
        Permission_GROUP Permission_GranteeType = 2
        // Represents access to everyone. No extra information is required.
        Permission_EVERYONE Permission_GranteeType = 3
    )

```

```

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

```

```

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```



```

}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"

```

```

json:"role,omitempty"
}

func (x *Permission) Reset() {
    *x = Permission{ }
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

```

```

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,

```

```

0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
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0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =

```

```

protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
})
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GranteeType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{ }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
}

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2025 Google LLC
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
)

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption

```

```

}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
return &LicenseCodesCallOptions{
    Get: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max: 60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        )),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close()
    error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx,
        req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

```



```

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicenseCodesClient
CallOptions **LicenseCodesCallOptions

logger *slog.Logger
}

// NewLicenseCodesRESTClient
// creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.

```

```

func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
// returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

    hds
    = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.LicenseCode{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
// resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.

```

```

hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return resp, nil
}

```

# 1.381 [cloud.google.com/go/auth/oauth2adapt](https://cloud.google.com/go/auth/oauth2adapt)

## 0.2.7

## 1.381.1 Available under license :

```
// Copyright 2024 Google LLC
//
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
)
```

```

// Represents a group. When set, you must provide email_address for the
// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
"GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```



```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,

```

```

0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
(Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
(Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
(*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

    },
    GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
    EnumInfos:    file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
  }.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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//go:build go1.23

package compute_test

import (
    "context"

```

```

compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute_pb#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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package procurement_test

```

```

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break

```



```

    }
    if err != nil {
        // TODO: Handle error.
    }
    //
    TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //

```

TODO: Use resp.

```
_ = resp  
}
```

```
func ExampleLicenseManagementClient_GetOperation() {  
    ctx := context.Background()  
    // This snippet has been automatically generated and should be regarded as a code template only.  
    // It will require modifications to work:  
    // - It may require correct/in-range values for request initialization.  
    // - It may require specifying regional endpoints when creating the service client as shown in:  
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options  
    c, err := procurement.NewLicenseManagementClient(ctx)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    defer c.Close()  
  
    req := &longrunningpb.GetOperationRequest{  
        // TODO: Fill request struct fields.  
        // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.  
    }  
    resp, err := c.GetOperation(ctx, req)  
    if err != nil {  
        // TODO: Handle error.  
    }  
    // TODO: Use resp.  
    _ = resp  
}  
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package compute_test  
  
import (  
    "context"
```

```

compute "cloud.google.com/go/compute/apiv1"
computepb "cloud.google.com/go/compute/apiv1/computepb"
"google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
}

```

```

resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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## END OF TERMS AND CONDITIONS

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package compute

import (

"bytes"

"context"

```

"fmt"
"log/slog"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
}

```

```

    },
    GetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
}

```

```

Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.

```



```
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}
```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty

if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,

use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners

who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
```

```

*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```

type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

```

```

    // The http client.
    httpClient *http.Client

```

```

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

```

```

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

```

```

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

```

```

    logger *slog.Logger
}

```

// NewLicensesRESTClient creates a new licenses rest client.  
//

// The Licenses API.

```

func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

```

```

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

```

```

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
    }

```

```

    option.WithEndpoint(endpoint),
}
opC, err := NewGlobalOperationsRESTClient(ctx, o...)
if err != nil {
    return nil, err
}
c.operationClient = opC

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.

```

```

//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    // and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &compute.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
        if err != nil {
            return err
        }
    })

```

```

    }

    if err := unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
    }, httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,

```

```

"Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

```

// Insert create a License resource in the specified project. Caution This resource is intended
for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {

```

```

return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{

```



```

c:    c.operationClient,
proto: resp,
project: req.GetProject(),
},
}
return op, nil
}

```

// List retrieves the

list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c \*licensesRESTClient) List(ctx context.Context, req \*computepb.ListLicensesRequest, opts

...gax.CallOption) \*LicenseIterator {

```

it := &LicenseIterator{}

```

```

req = proto.Clone(req).(*computepb.ListLicensesRequest)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {

```

```

    resp := &computepb.LicensesListResponse{}

```

```

    if pageToken != "" {

```

```

        req.PageToken = proto.String(pageToken)

```

```

    }

```

```

    if pageSize > math.MaxInt32

```

```

    {

```

```

        req.MaxResults = proto.Uint32(uint32(math.MaxInt32))

```

```

    } else if pageSize != 0 {

```

```

        req.MaxResults = proto.Uint32(uint32(pageSize))

```

```

    }

```

```

    baseUrl, err := url.Parse(c.endpoint)

```

```

    if err != nil {

```

```

        return nil, "", err

```

```

    }

```

```

    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

```

```

    params := url.Values{}

```

```

    if req != nil && req.Filter != nil {

```

```

        params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))

```

```

    }

```

```

    if req != nil && req.MaxResults != nil {

```

```

        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))

```

```

    }

```

```

    if req != nil && req.OrderBy != nil {

```

```

        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))

```

```

    }

```

```

    if req != nil && req.PageToken != nil {

```

```

        params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))

```

```

    }

```

```

if req != nil && req.ReturnPartialSuccess != nil {
    params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

```

```

it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
if err != nil {
    return err
}

if
err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)

```

```

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err !=
nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

```

```

package compute_test

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {

```



```

if err != nil {
    // TODO: Handle error and break/return/continue. Iteration will stop after any error.
}
// TODO: Use resp.
_ = resp
}
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

```

```

_ "google.golang.org/genproto/googleapis/api/annotations"
grpc "google.golang.org/grpc"
codes "google.golang.org/grpc/codes"
status
"google.golang.org/grpc/status"
protorelect "google.golang.org/protobuf/reflect/protorelect"
protoimpl "google.golang.org/protobuf/runtime/protoimpl"
durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

```

```

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_struct {
    // Allow manual assignments triggered by administrative operations only.

```

```

ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"
}

type
AssignmentProtocol_AutoAssignmentType_struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Identifier. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Required. Assignment protocol for the license pool.
LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
}

```

```

}
return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```

```

[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func

```



```

(x *AssignRequest) Reset() {
*x = AssignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
if x != nil {
return x.Parent
}
return ""
}

func (x *AssignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

```

```

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//

```

```

[LicenseManagementService.Unassign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[6]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

```

```

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)

```

```

    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo()
    == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.

```

```

// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
Output only. Timestamp when the license was assigned.
AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
// Output only. Timestamp when the license was recently used. This may not be
// the most recent usage time, and will be updated regularly (within 24
// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

```

```

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.prourement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```



```

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```

```

}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"`
}

```

```

json:"inactive_license_ttl,omitempty"
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =

```

```
[]byte{
0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
```

0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,  
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
    sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
    = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(
        func() {
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
                protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData)
        })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
(*AssignmentProtocol)(nil),
// 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
(*LicensePool)(nil), // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
(*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
(*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil), // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil), // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil), // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil), // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
// 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil), // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->

```

```

google.cloud.commerce.consumer.procurement.v1.LicensedUser
15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:
type_name -> google.protobuf.Duration
2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
-> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
}

```

```

}
type x struct{ }
out := protoimpl.TypeBuilder{
    File:
    protoimpl.DescBuilder{
        GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
        RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
        NumEnums:    0,
        NumMessages: 13,
        NumExtensions: 0,
        NumServices:  1,
    },
    GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
    DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx

```

```

context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
// Unassigns a license from a user.
Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
}

```

```

return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,

```

```

*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {

```

```

    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
}
handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",

```



```

}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{ }, ctx context.Context, dec
func(interface{ }) error, interceptor grpc.UnaryServerInterceptor) (interface{ }, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",

```

```

Handler: _LicenseManagementService_Unassign_Handler,
},
{
  MethodName: "EnumerateLicensedUsers",
  Handler: _LicenseManagementService_EnumerateLicensedUsers_Handler,
},
},
Streams: []grpc.StreamDesc{ },
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

```

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protorelect "google.golang.org/protobuf/reflect/protorelect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
    }
)

```

```

"EVERYONE":      3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (

```



```

Permission_Role_name = map[int32]string{
    0: "ROLE_UNSPECIFIED",
    1: "OWNER",
    2: "WRITER",
    3: "READER",
}
Permission_Role_value = map[string]int32{
    "ROLE_UNSPECIFIED": 0,
    "OWNER":            1,
    "WRITER":            2,
    "READER":            3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,

```

```

you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

```

var

File\_google\_ai\_generativelanguage\_v1beta\_permission\_proto protoreflect.FileDescriptor

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
    0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
    0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
    0x54,
    0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
    0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
    0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
    0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
    0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
    0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
    0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
    0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
    0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
```

```

0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GrantType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GrantType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),   // 2: google.ai.generativelanguage.v1beta.Permission
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
            NumEnums:      2,
            NumMessages:    1,
            NumExtensions: 0,
            NumServices:    0,
        },
        GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
        EnumInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
        MessageInfos:  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1beta_permission_proto = out.File
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
    = nil
    file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.382 google-cloud-go-monitoring 1.23.0

## 1.382.1 Available under license :

```

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```

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```

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.35.2
//   protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto
```

```
package generativelanguagepb
```

```
import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)
```

```
// Defines types of the grantee of this permission.
type Permission_GranteeType int32
```

```
const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
```

```

Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

```



```

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

```

```

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`

```

```

// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
if x != nil && x.GranteeType != nil {
return *x.GranteeType
}
}

```

```

return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
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    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,

```

0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,  
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0x4e,  
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0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,  
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0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,  
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,  
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0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,  
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,  
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,  
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,  
0x61, 0x67,  
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,  
}

```
var (  
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once  
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =  
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc  
)
```

```

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
    type x struct{}
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
            NumEnums: 2,
            NumMessages: 1,
            NumExtensions: 0,
            NumServices: 0,
        },
        GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
        EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    }

```

```

MessageInfos:    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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//
//      http://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

```

```

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    for resp, err := range c.List(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}
// Copyright 2025 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//   https://www.apache.org/licenses/LICENSE-2.0
//
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"

```



```

procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
"google.golang.org/api/iterator"
)

```

```

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```

```

c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
    }
}

```

```

//
TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &procurementpb.GetLicensePoolRequest{
// TODO: Fill request struct fields.
//
See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
}
resp, err := c.GetLicensePool(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_Unassign() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
c, err := procurement.NewLicenseManagementClient(ctx)

```

```

if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {

```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

```

```

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.

```

```

_ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.

```



```

// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp

    // If you need to access the underlying RPC response,
    // you can do so by casting the `Response` as below.
    // Otherwise, remove this line. Only populated after
    // first call to Next(). Not safe for concurrent access.
    _ = it.Response.(*compute.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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package compute

```
import (  
    "bytes"  
    "context"  
    "fmt"  
    "log/slog"  
    "math"  
    "net/http"  
    "net/url"
```

```

"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
}),
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {

```



```

return gax.OnHTTPCodes(gax.Backoff{
    Initial: 100 * time.Millisecond,
    Max:     60000 * time.Millisecond,
    Multiplier: 1.30,
},
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
    gax.WithRetry(func() gax.Retryer {
        return gax.OnHTTPCodes(gax.Backoff{
            Initial: 100 * time.Millisecond,
            Max:     60000 * time.Millisecond,
            Multiplier: 1.30,
        },
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
},
SetIamPolicy: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
    gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)

```

```

(*computepb.TestPermissionsResponse,
error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

```

```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

```

```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions

    logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
        logger:    internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }

```

```

    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient
    with nil to force cleanup.
    c.httpClient = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
```

```
    baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client
and context metadata.
```

```
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())) }
```

```
hds = append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
```

```
headers := gax.BuildHeaders(ctx, hds...)
```

```
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
```

```
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
```

```
resp := &computepb.Operation{ }
```

```
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
    if settings.Path != "" {
```

```
        baseUrl.Path = settings.Path
```

```
    }
```

```
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    httpReq = httpReq.WithContext(ctx)
```

```
    httpReq.Header = headers
```

```
    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
```

```
    if err != nil {
```

```
        return err
```

```
    }
```

```
    if err := unm.Unmarshal(buf,
```

```
resp); err != nil {
```

```
    return err
```

```

    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
    hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
    "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
    opts...)

```



```

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }

```

```

if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}

```

```

return op, nil
}

// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{}
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{}
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{}
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

```

```

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
        if err != nil {
            return err
        }
    })

```

```

    if
err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path

```

```

    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

// Copyright 2025 Google LLC
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// you may not use this file except in compliance with the License.

```

```

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {

```



```

// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
// TODO: Fill request
struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
// Copyright 2025 Google LLC
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//

```

```

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "math"
    "net/http"
    "net/url"

    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    gtransport
    "google.golang.org/api/transport/grpc"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
    GetLicensePool      []gax.CallOption
    UpdateLicensePool   []gax.CallOption
    Assign              []gax.CallOption
    Unassign            []gax.CallOption
    EnumerateLicensedUsers []gax.CallOption
    GetOperation        []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {

```

```

return []option.ClientOption{
    internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
,
    internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    internaloption.EnableJwtWithScope(),
    internaloption.EnableNewAuthLibrary(),
    option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
        grpc.MaxCallRecvMsgSize(math.MaxInt32))),
}
}

```

```

func
defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
return &LicenseManagementCallOptions{
    GetLicensePool:    []gax.CallOption{ },
    UpdateLicensePool: []gax.CallOption{ },
    Assign:           []gax.CallOption{ },
    Unassign:         []gax.CallOption{ },
    EnumerateLicensedUsers: []gax.CallOption{ },
    GetOperation:      []gax.CallOption{ },
}
}

```

```

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
return
&LicenseManagementCallOptions{
    GetLicensePool:    []gax.CallOption{ },
    UpdateLicensePool: []gax.CallOption{ },
    Assign:           []gax.CallOption{ },
    Unassign:         []gax.CallOption{ },
    EnumerateLicensedUsers: []gax.CallOption{ },
    GetOperation:      []gax.CallOption{ },
}
}

```

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce Consumer Procurement API.

```

type internalLicenseManagementClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
    UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)

```

```

(*procurementpb.LicensePool, error)
Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
Unassign(context.Context, *procurementpb.UnassignRequest,
...gax.CallOption) (*procurementpb.UnassignResponse, error)
EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
// The internal transport-dependent client.
internalClient internalLicenseManagementClient

// The call options for this service.
CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
Close() error {
return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

```

```

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
    UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
    return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
    return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    return c.internalClient.EnumerateLicensedUsers(ctx,
        req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementGRPCClient struct {
    // Connection pool of gRPC connections to the service.
    connPool gtransport.ConnPool

    // Points back to the CallOptions field of the containing LicenseManagementClient

```

```

CallOptions **LicenseManagementCallOptions

// The gRPC API client.
licenseManagementClient procurementpb.LicenseManagementServiceClient

operationsClient longrunningpb.OperationsClient

//
The x-goog-* metadata to be sent with each request.
xGoogHeaders []string

logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
    clientOpts := defaultLicenseManagementGRPCClientOptions()
    if newLicenseManagementClientHook != nil {
        hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{ })
        if err != nil {
            return nil, err
        }
        clientOpts = append(clientOpts, hookOpts...)
    }

    connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
    if err != nil {
        return nil, err
    }
    client := LicenseManagementClient{ CallOptions: defaultLicenseManagementCallOptions()

    c := &licenseManagementGRPCClient{
        connPool:
            connPool,
        licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
        CallOptions:            &client.CallOptions,
        logger:                 internaloption.GetLogger(opts),
        operationsClient:       longrunningpb.NewOperationsClient(connPool),
    }
    c.setGoogleClientInfo()

    client.internalClient = c

    return &client, nil

```

```

}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
    return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
    grpc.Version)
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
    return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseManagementRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseManagementClient
    CallOptions **LicenseManagementCallOptions

    logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//

```

```

// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicenseManagementClient, error) {
    clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseManagementRESTCallOptions()
    c := &licenseManagementRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
        internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.

```



```

func (c *licenseManagementRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
    return nil
}

func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        var err error
        resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
        return err
    }, opts...)
    if err != nil {
        return
    }
    return nil, err
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
    opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
    var resp *procurementpb.LicensePool
    err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

var err error
resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
var resp *procurementpb.AssignResponse
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
var err error
resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds
= append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
var resp *procurementpb.UnassignResponse
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
var err error
resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

```

```

}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
tions).EnumerateLicensedUsers)],
opts...)
it := &LicensedUserIterator{ }
req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
resp := &procurementpb.EnumerateLicensedUsersResponse{ }
if pageToken != "" {
req.PageToken = pageToken
}
if pageSize > math.MaxInt32 {
req.PageSize = math.MaxInt32
} else if pageSize != 0 {
req.PageSize = int32(pageSize)
}
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
var err error
resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
return err
}, opts...)
if err != nil {
return nil, "", err
}

it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}
fetch := func(pageSize int,
pageToken string) (string, error) {
items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

```

```

it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
var resp *longrunningpb.Operation
err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
var err error
resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
return err
}, opts...)
if err != nil {
return nil, err
}
return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)

```

```

    opts =
    append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicensePool)],
    opts...)
    unnm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &procurementpb.LicensePool{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
        if err != nil {
            return err
        }

        if err := unnm.Unmarshal(buf, resp); err != nil {
            return err
        }

        return nil
    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
    m := protojson.MarshalOptions{ AllowPartial: true, UseEnumNumbers: true}
    body := req.GetLicensePool()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

params := url.Values{ }
params.Add("$alt", "json;enum-encoding=int")
if req.GetUpdateMask() != nil {
    field, err := protojson.Marshal(req.GetUpdateMask())
    if err != nil {
        return nil, err
    }
    params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).UpdateLicensePool)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }
}

```

```

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp
    := &procurementpb.AssignResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)

```

```

httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
    jsonReq, err := m.Marshal(req)
    if err != nil {
        return
        nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

    params := url.Values{}
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```



```

resp := &procurementpb.UnassignResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(),
bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
    it := &LicensedUserIterator{ }
    req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
    unmarshalOptions := unmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
        resp := &procurementpb.EnumerateLicensedUsersResponse{ }
        if
        pageToken != "" {
            req.PageToken = pageToken
        }
        if pageSize > math.MaxInt32 {
            req.PageSize = math.MaxInt32
        } else if pageSize != 0 {
            req.PageSize = int32(pageSize)
        }
        baseUrl, err := url.Parse(c.endpoint)

```

```

if err != nil {
    return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

params := url.Values{}
params.Add("$alt", "json;enum-encoding=int")
if req.GetPageSize() != 0 {
    params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
}
if req.GetPageToken() != "" {
    params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
    if err != nil {
        return err
    }
    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {

```

```

items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
if err != nil {
    return "", err
}
it.items = append(it.items, items...)
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
    *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
    opts ...gax.CallOption) (*longrunningpb.Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

    params := url.Values{ }
    params.Add("$alt", "json;enum-encoding=int")

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &longrunningpb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
    error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {

```

```

    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

```

```

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
}

```

```

// Types that are assignable to AssignmentType:
//
// *AssignmentProtocol_ManualAssignmentType_
// *AssignmentProtocol_AutoAssignmentType_
AssignmentType
isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

```

```

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

```

```

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

```

```

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

```

```

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

```

```

type
    AssignmentProtocol_AutoAssignmentType_ struct {
        // Allow automatic assignments triggered by data plane operations.
        AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
        `protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
    }

```

```

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

```

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

```

// A license pool represents a pool of licenses that can be assigned to users.

```

type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

```

// Identifier. Format:

// `billingAccounts/{billing\_account}/orders/{order}/licensePool`

Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`

// Required. Assignment protocol for the license pool.

LicenseAssignmentProtocol \*AssignmentProtocol

```

`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"

```



```

json:"license_assignment_protocol,omitempty"`
// Output only. Licenses count that are available to be assigned.
AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
// Output only. Total number of licenses in the pool.
TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
*x = LicensePool{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
if x != nil {
return x.Name

```

```

    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

```

```

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

```

```

}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
// instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
}

```

```

return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.

```

```

func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{4}
}

func (x *AssignRequest) GetParent()
    string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]

```

```

if x
!= nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
*x = UnassignRequest{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

```

```

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{6}
}

func (x *UnassignRequest) GetParent() string {
    if x != nil {
        return
        x.Parent
    }
    return ""
}

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
}

```



```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
if x != nil {
ms
:= protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. License pool name.
Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Optional. The maximum number of users to return. The service may return
// fewer than this value.
PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"

```

```

json:"page_size,omitempty"`
// Optional. A page token, received from a previous `EnumerateLicensedUsers`
// call. Provide this to retrieve the subsequent page.
PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

```

```

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

```

```

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse

```

```

struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{10}
}

```

```

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

}

// Deprecated:
Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
}

```

```

return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protorelect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
    0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x64,
    0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
    0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
    0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
    0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
    0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
    0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,

```



0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,  
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,  
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,  
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,  
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,  
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,  
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,  
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73,  
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,  
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,  
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,  
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,  
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,  
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,  
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,  
0x03, 0xe0, 0x41, 0x01,  
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,  
}

```

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),           // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil), // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil), // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),         // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),       // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),      // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil), // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
    (*LicensedUser)(nil),
        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
    (*EnumerateLicensedUsersResponse)(nil), // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
    (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    (*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    (*fieldmaskpb.FieldMask)(nil), // 13: google.protobuf.FieldMask
    (*timestamppb.Timestamp)(nil), // 14: google.protobuf.Timestamp
    (*durationpb.Duration)(nil),   // 15: google.protobuf.Duration

```

```

}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
  11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
  12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
  0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
  1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
  13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
  14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
  14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
  9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
  15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
  2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
  3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
  4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
  6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
  8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_ty
pe -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
  1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
  1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
  5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
  7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
  10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty

```

```

pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{}
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
        MessageInfos:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
    }.Build()
    File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
    = nil
}

// Reference imports to suppress errors if they are not otherwise used.

```



```

var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
        "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in

```

```

*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.

```

```

GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
// Updates the license pool if one exists for this Order.
UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
// Assigns a license to a user.
Assign(context.Context, *AssignRequest)
(*AssignResponse, error)
// Unassigns a license from a user.
Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
// Enumerates all users assigned a license.
EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(GetLicensePoolRequest)
if err := dec(in);

```

```

err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",

```

```

}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if
    interceptor == nil {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
    }
    return interceptor(ctx, in, info, handler)
}

```

```

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{ },
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the

```

```

// group.
Permission_GROUP Permission_GrantType = 2
// Represents access to everyone. No extra information is required.
Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,

```

```

[]int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

```

```

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this

```

```

// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,

```



```

0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once

```

```

file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
}))
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
(Permission_GrantType)(0),
// 0: google.ai.generativelanguage.v1beta.Permission.GrantType
(Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
(*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GrantType
1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
2, // [2:2] is the sub-list for method output_type
2, // [2:2] is the sub-list for method input_type
2, // [2:2] is the sub-list for extension type_name
2, // [2:2] is the sub-list for extension extendee
0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{ }
type x struct{ }
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,

```

```

    },
    GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
    EnumInfos:    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
    MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
  }.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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//
// https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "log/slog"
    "net/http"
    "net/url"
    "time"

    computepb "cloud.google.com/go/compute/apiv1/computepb"
    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    "google.golang.org/grpc"
    "google.golang.org/protobuf/encoding/protojson"
)

```

```

var
    newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                    http.StatusGatewayTimeout,
                    http.StatusServiceUnavailable)
            }),
        },
        TestIamPermissions: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close()
    error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

```

```

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx,
        req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

```

```

type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions

    logger *slog.Logger
}

// NewLicenseCodesRESTClient
// creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()),
        internaloption.EnableNewAuthLibrary(),
    }
}

```

```

}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection
returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

    hds

```

```

= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)

```



```

if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

# 1.383 github.com/google/s2a-go 0.1.9

## 1.383.1 Available under license :

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# 1.392 errors 0.9.1

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# 1.393 gogo-protobuf 1.3.2

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Brian Goff <cpuguy83@gmail.com>

Clayton Coleman <ccoleman@redhat.com>

Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>

Dwayne Schultz <dschultz@pivotal.io>

Georg Apitz <gapitz@pivotal.io>

Gustav Paul <gustav.paul@gmail.com>

Johan Brandhorst <johan.brandhorst@gmail.com>

John Shahid <jvshahid@gmail.com>

John Tuley <john@tuley.org>

Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

Peter Edge <peter.edge@gmail.com>

Roger Johansson <rogersaling@gmail.com>

Sam Nguyen <sam.nguyen@sendgrid.com>

Sergio Arbo <serabe@gmail.com>

Stephen J Day <stephen.day@docker.com>

Tamir Duberstein <tamird@gmail.com>

Todd Eisenberger <teisenberger@dropbox.com>

Tormod Erevik Lea <tormodlea@gmail.com>

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# 1.394 go-units 0.5.0

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# 1.397 gounits 0.5.0

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\* <https://github.com/eclipse/paho.mqtt.golang>

### ## Third-party Content

This project makes use of the follow third party projects.

#### Go Programming Language and Standard Library

- \* License: BSD-style license (<https://golang.org/LICENSE>)

- \* Project: <https://golang.org/>

#### Go Networking

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- \* Project: <https://cs.opensource.google/go/x/net>

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#### Gorilla Websockets v1.4.2

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# 1.412 libnghttp2-1.43.0-1ubuntu0.2

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set yrange [0:]

set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024

set xtics rotate by -45

set style histogram errorbars gap 2 lw 1

set style fill solid border -1

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# 1.413 librtmp 2.4+20151223.gitfa8646d.1- 2build4

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property.

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```
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```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
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Alex A. Skinner

Andrew Tunnell-Jones

Ask Bjørn Hansen

Dave Cheney

Dusty Wilson

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# 1.428 nats 1.39.1

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## 1.429 nkeys 0.4.10

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## 1.430 cloud.google.com/go/auth 0.15.0

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
//  source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
```

```

var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
            "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (

```

```

// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

```

```

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

```



```

}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {

```

```

if x != nil && x.EmailAddress != nil {
    return *x.EmailAddress
}
return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,

```

```

0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
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0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
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0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
}

```

```

    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
= []any{
    (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
    1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
    if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{ }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File: protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
            NumEnums: 2,
            NumMessages: 1,
            NumExtensions: 0,
            NumServices: 0,
        },
        GoTypes: file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
        DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
        EnumInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
        MessageInfos: file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
    }.Build()
    File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc

```

```

= nil
file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications

```

```

to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &compute.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

```

```

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

```

```

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &procurementpb.AssignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
}
resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicensedUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        //
        TODO: Use resp.
        _ = resp
    }
}

```



```

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
}
}

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRequest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &procurementpb.UnassignRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
}
resp,
err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &procurementpb.UpdateLicensePoolRequest{
    // TODO: Fill request struct fields.
    // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
// TODO: Use resp.
_ = resp
}

```

```

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```

```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will
require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &compute.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:

```

```

// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //  https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()

```

```

{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template
only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {

```

```

resp, err := it.Next()
if err == iterator.Done {
    break
}
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically

```

generated and should be regarded as a code template only.

// It will require modifications to work:

// - It may require correct/in-range values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// [https://pkg.go.dev/cloud.google.com/go#hdr-Client\\_Options](https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options)

```
c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
```

```
    // TODO: Handle error.
```

```
}
```

```
defer c.Close()
```

```
req := &computepb.TestIamPermissionsLicenseRequest{
```

```
    // TODO: Fill request struct fields.
```

```
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
```

```
}
```

```
resp, err := c.TestIamPermissions(ctx, req)
```

```
if err != nil {
```

```
    // TODO: Handle error.
```

```
}
```

```
// TODO: Use resp.
```

```
_ = resp
```

```
}
```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package compute

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"

```

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,

```

```

Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
List: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
SetIamPolicy: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
TestIamPermissions: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

```

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
// to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)

```



```

(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses,
// use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
// This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {

```

```

// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// operationClient is used to call the operation-specific management service.
operationClient *GlobalOperationsClient

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

```

```

return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultUniverseDomain("googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()),
    internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
    "x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
// with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.

```

```

func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client
    and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
        if err != nil {
            return err
        }

        if err := unmarshal(buf,
resp); err != nil {
            return err
        }

        return nil
    })

```

```

    }, opts...)
    if e != nil {
        return nil, e
    }
    op := &Operation{
        &globalOperationsHandle{
            c:    c.operationClient,
            proto: resp,
            project: req.GetProject(),
        },
    }
    return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
    hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {

```

```

    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
"Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
    unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {

```

```

if settings.Path != "" {
    baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
// for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

```

```

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &compute.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```



```

// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
it := &LicenseIterator{}
req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
resp := &computepb.LicensesListResponse{}
if pageToken != "" {
req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32
{
req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
} else if pageSize != 0 {
req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from

```

```

client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
    if err != nil {
        return err
    }
    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This

```

resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds
    := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
        if err != nil {
            return err
        }
    })
    if

```

```

err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.TestPermissionsResponse{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }

```

```

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
if err !=
nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
```

```

}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}
```



```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"

```

```

durationpb "google.golang.org/protobuf/types/known/durationpb"
fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {

```

```

    ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
    if m != nil {
        return m.AssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
        return x.ManualAssignmentType
    }
    return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
    if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
        return x.AutoAssignmentType
    }
    return nil
}

type isAssignmentProtocol_AssignmentType interface {
    isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
    // Allow manual assignments triggered by administrative operations only.
    ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
    `protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
    // Allow automatic assignments triggered by data plane operations.

```

```

AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if

```

```

x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
license pool.
type GetLicensePoolRequest struct {

```

```

state      protoimpl.MessageState
sizeCache  protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Required. The name of the license pool to get.
// Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
}

```

```

return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The license pool to update.
    //
    // The license pool's name field is used to identify the license pool to
    // update. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
    LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
    json:"license_pool,omitempty"`
    //
    // Required. The list of fields to update.
    UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
    json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
    *x = UpdateLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```



```

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache

```

```

unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.

```

```

Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
// Required. Username.
// Format: `name@domain.com`.
Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
*x = UnassignRequest{ }
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

```

```

func (x *UnassignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
// [LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24

```

```

// hours).
RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"
}

func (x *LicensedUser) Reset() {
*x = LicensedUser{}
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
if
x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
if x != nil {
return x.Username
}
return ""
}

```

```

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {
        return x.RecentUsageTime
    }
    return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func

```



```

(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated:
// Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))

```

```

ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
    protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
    []byte{
        0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
        0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
        0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
        0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
        0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
        0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
        0x6f,
    }

```

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0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
}

```

```

(*UpdateLicensePoolRequest)(nil),          // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
(*AssignRequest)(nil),                     // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
(*AssignResponse)(nil),                   // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
(*UnassignRequest)(nil),                 // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
(*UnassignResponse)(nil),               // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
(*EnumerateLicensedUsersRequest)(nil),    // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil),    // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),           // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),           // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),             // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest

```

```

4, // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
6, // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
8, // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_type
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
1, // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_type
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums:    0,

```

```

    NumMessages: 13,
    NumExtensions: 0,
    NumServices: 1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
  }.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
  // Gets the license pool.
  GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
  // Updates the license pool if one exists for this Order.
  UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
  // Assigns a license to a user.
  Assign(ctx
context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
  // Unassigns a license from a user.
  Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
  // Enumerates all users assigned a license.
  EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
  cc grpc.ClientConnInterface

```

```

}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
    if err != nil {
        return nil, err
    }
    return
    out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
}

```

```

    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}

```

```

}

func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}

func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler

```

```

:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(AssignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Assign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UnassignRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(EnumerateLicensedUsersRequest)

```



```

if err := dec(in); err != nil {
    return nil, err
}
if
interceptor == nil {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{},
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

\_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

```

const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {

```

```

return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[int]) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":           1,
"WRITER":          2,
"READER":          3,
}

```



```

    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState

```

```

sizeCache    protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Output only. Identifier. The permission name. A unique name will be
// generated on create. Examples:
//
// tunedModels/{tuned_model}/permissions/{permission}
// corpora/{corpus}/permissions/{permission}
//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
}

```

```

    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,

```

0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,  
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,  
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,  
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,  
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,  
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,  
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,  
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,  
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,  
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,  
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,  
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,  
0x01, 0x01, 0x12,  
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,  
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,  
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,  
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,  
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,  
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,  
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,  
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,  
0x54,  
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,  
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0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,  
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,  
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0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,  
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0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,  
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,  
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,  
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,  
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,  
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,  
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,  
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,  
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,  
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,  
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,

```

0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

```

```

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

```

```

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GranteeType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
    (Permission_Role)(0), // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil), // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

```

```

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
return
}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
File: protoimpl.DescBuilder{
GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
NumEnums: 2,
NumMessages: 1,
NumExtensions: 0,
NumServices: 0,
},
GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
EnumInfos: file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

## 1.431 google-cloud-go-auth 0.15.0

### 1.431.1 Available under license :

```

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```

```

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
    Permission_GranteeType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2: "GROUP",
        3: "EVERYONE",
    }

```

```

}
Permission_GrantType_value = map[string]int32{
    "GRANTEE_TYPE_UNSPECIFIED": 0,
    "USER":                      1,
    "GROUP":                    2,
    "EVERYONE":                 3,
}
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[]int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.

```



```

Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":            1,
        "WRITER":            2,
        "READER":            3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string
{
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the

```

```

// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
// accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.
    Role *Permission_Role
    `protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
    json:"role,omitempty"`
}

func (x *Permission) Reset() {
    *x = Permission{}
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *Permission) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
    mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {

```

```

if x != nil && x.Role != nil {
    return *x.Role
}
return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
    0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
    0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
    0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
    0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
    0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
    0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
    0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
    0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
    0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
    0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
    0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
    0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
    0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
    0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
    0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
    0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
    0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
    0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
    0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
    0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
    0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
    0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
    0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
    0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
    0x4e,
    0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
    0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
    0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
    0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
    0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
    0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,

```

```

0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
0x61, 0x67,
0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```

```

var (
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
            protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes

```

```

= []any{
  (Permission_GrantType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GrantType
  (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1alpha.Permission.Role
  (*Permission)(nil),        // 2: google.ai.generativelanguage.v1alpha.Permission
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
  0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.GrantType
  1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
    google.ai.generativelanguage.v1alpha.Permission.Role
  2, // [2:2] is the sub-list for method output_type
  2, // [2:2] is the sub-list for method input_type
  2, // [2:2] is the sub-list for extension type_name
  2, // [2:2] is the sub-list for extension extendee
  0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
}

func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
  if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
    return
  }
  file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
  type x struct{}
  out := protoimpl.TypeBuilder{
    File: protoimpl.DescBuilder{
      GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
      RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
      NumEnums:      2,
      NumMessages:    1,
      NumExtensions: 0,
      NumServices:    0,
    },
    GoTypes:      file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
    DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
    EnumInfos:     file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
    MessageInfos:  file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
  }.Build()
  File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = nil
  file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
  file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications
    to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
for resp, err := range c.List(ctx, req).All() {
    if err != nil {
        // TODO: Handle error and break/return/continue. Iteration will stop after any error.
    }
    // TODO: Use resp.
    _ = resp
}
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
    longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
    ctx
    := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.

```



```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleNewLicenseManagementRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c,
    err := procurement.NewLicenseManagementRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseManagementClient_Assign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.AssignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
    }

```

```

resp, err := c.Assign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    it := c.EnumerateLicensedUsers(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        //
        TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
    }
}

```

```

func ExampleLicenseManagementClient_GetLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.GetLicensePoolRequest{
        // TODO: Fill request struct fields.
        //
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
        quest.
    }
    resp, err := c.GetLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UnassignRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
    }
    resp,

```

```

err := c.Unassign(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.UpdateLicensePoolRequest{
        // TODO: Fill request struct fields.
        // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoolRequest.
    }
    resp, err := c.UpdateLicensePool(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

```

```

req := &longrunningpb.GetOperationRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {

```

```

// TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        //
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
    }
    op, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }

    err = op.Wait(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options

```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
    }
}

```



```

// TODO: Use resp.
_ = resp

// If you need to access the underlying RPC response,
// you can do so by casting the `Response` as below.
// Otherwise, remove this line. Only populated after
// first call to Next(). Not safe for concurrent access.
_ = it.Response.(*computepb.LicensesListResponse)
}
}

func
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
}

```

```

}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package compute

import (

"bytes"

"context"

"fmt"

"log/slog"

"math"

"net/http"

"net/url"

"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/iterator"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/protobuf/encoding/protojson"

"google.golang.org/protobuf/proto"

```

)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete      []gax.CallOption
Get         []gax.CallOption
GetIamPolicy []gax.CallOption
Insert      []gax.CallOption
List        []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
},
Get: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
GetIamPolicy:
[]gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),
gax.WithRetry(func() gax.Retryer {
return gax.OnHTTPCodes(gax.Backoff{
Initial: 100 * time.Millisecond,
Max: 60000 * time.Millisecond,
Multiplier: 1.30,
},
http.StatusGatewayTimeout,
http.StatusServiceUnavailable)
}),
},
Insert: []gax.CallOption{
gax.WithTimeout(600000 * time.Millisecond),

```



```

    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse,
    error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.

```

```
internalClient internalLicensesClient
```

```
// The call options for this service.  
CallOptions *LicensesCallOptions  
}
```

```
// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when  
// the client is no longer required.  
func (c *LicensesClient) Close() error {  
    return c.internalClient.Close()  
}
```

```
// setGoogleClientInfo sets the name and version of the application in  
// the `x-goog-api-client` header passed on each request. Intended for  
// use by Google-written clients.  
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {  
    c.internalClient.setGoogleClientInfo(keyval...)  
}
```

```
// Connection returns a connection  
// to the API service.  
//  
// Deprecated: Connections are now pooled so this method does not always  
// return the same resource.  
func (c *LicensesClient) Connection() *grpc.ClientConn {  
    return c.internalClient.Connection()  
}
```

```
// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are  
// creating Cloud Marketplace images.  
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)  
(*Operation, error) {  
    return c.internalClient.Delete(ctx, req, opts...)  
}
```

```
// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners  
// who are creating Cloud Marketplace images.  
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)  
(*computepb.License, error) {  
    return c.internalClient.Get(ctx, req, opts...)  
}
```

```
// GetIamPolicy gets the access control policy for a resource. May be empty  
// if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are  
// creating Cloud Marketplace images.  
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
```

```

...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
    use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
    who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

```

```

// The x-goog-* headers to be sent with each request.
xGoogHeaders []string

// Points back to the CallOptions field of the containing LicensesClient
CallOptions **LicensesCallOptions

logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:    endpoint,
        httpClient:  httpClient,
        CallOptions: &callOpts,
        logger:     internaloption.GetLogger(opts),
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    }
}

```

```

internaloption.WithDefaultUniverseDomain("googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()),
internaloption.EnableNewAuthLibrary(),
}
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogHeaders = []string{
"x-goog-api-client", gax.XGoogHeader(kv...),
}
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient
with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

```

```

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client
and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf,
resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,

```

```

    project: req.GetProject(),
  },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders,
hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.License{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
        if err != nil {
            return err
        }

        if err := unmarshal(buf, resp); err != nil {
            return err
        }

        return nil
    })
}

```

```

    }, opts...)
    if e != nil {
        return nil, e
    }
    return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
    req.GetResource())

    params := url.Values{ }
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
        params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds,
    "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
    opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Policy{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)

```



```
httpReq.Header = headers
```

```
buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
if err != nil {
    return err
}
```

```
if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}
```

```
return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended
for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
```

```
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
```

```
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
```

```
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())
```

```
    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
```

```
    baseUrl.RawQuery = params.Encode()
```

```
// Build HTTP headers from client and context metadata.
```

```
hds := []string{ "x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject())) }
```

```
hds = append(c.xGoogHeaders, hds...)
```

```
hds = append(hds, "Content-Type", "application/json")
```

```

headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// List retrieves the
list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{ }

```

```

req = proto.Clone(req).(*computepb.ListLicensesRequest)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
    resp := &computepb.LicensesListResponse{}
    if pageToken != "" {
        req.PageToken = proto.String(pageToken)
    }
    if pageSize > math.MaxInt32
    {
        req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
    } else if pageSize != 0 {
        req.MaxResults = proto.Uint32(uint32(pageSize))
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, "", err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{}
    if req != nil && req.Filter != nil {
        params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
    }
    if req != nil && req.MaxResults != nil {
        params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
    }
    if req != nil && req.OrderBy != nil {
        params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
    }
    if req != nil && req.PageToken != nil {
        params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
    }
    if req != nil && req.ReturnPartialSuccess != nil {
        params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from
    client and context metadata.
    hds := append(c.xGoogHeaders, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
        if err != nil {

```

```

    return err
}
httpReq.Header = headers

buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
if err != nil {
    return err
}
if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken,
    nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

```

```

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds
:= []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
    if err != nil {
        return err
    }

    if
err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
        if err !=

```

```

nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request
        struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)

```



```

if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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```

```

//go:build go1.23

package procurement_test

import (
    "context"

    procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
    procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
    ctx := context.Background()
    // This snippet has been automatically
    generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := procurement.NewLicenseManagementClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &procurementpb.EnumerateLicensedUsersRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
        dUsersRequest.
    }
    for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
        if err != nil {
            // TODO: Handle error and break/return/continue. Iteration will stop after any error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

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```

```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc      v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
    context "context"
    reflect "reflect"
    sync "sync"

    _ "google.golang.org/genproto/googleapis/api/annotations"
    grpc "google.golang.org/grpc"
    codes "google.golang.org/grpc/codes"
    status "google.golang.org/grpc/status"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
    durationpb "google.golang.org/protobuf/types/known/durationpb"
    fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
    timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.

```

```

_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The type of assignment protocol.
    //
    // Types that are assignable to AssignmentType:
    //
    // *AssignmentProtocol_ManualAssignmentType_
    // *AssignmentProtocol_AutoAssignmentType_
    AssignmentType
    isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
    *x = AssignmentProtocol{ }
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {

```

```

return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
if m != nil {
return m.AssignmentType
}
return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
return x.ManualAssignmentType
}
return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
return x.AutoAssignmentType
}
return nil
}

type isAssignmentProtocol_AssignmentType interface {
isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
// Allow manual assignments triggered by administrative operations only.
ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
AssignmentProtocol_AutoAssignmentType_ struct {
// Allow automatic assignments triggered by data plane operations.
AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.

```

```

type LicensePool struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Identifier. Format:
    // `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Required. Assignment protocol for the license pool.
    LicenseAssignmentProtocol *AssignmentProtocol
    `protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
    json:"license_assignment_protocol,omitempty"`
    // Output only. Licenses count that are available to be assigned.
    AvailableLicenseCount int32
    `protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
    json:"available_license_count,omitempty"`
    // Output only. Total number of licenses in the pool.
    TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
    json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
    *x = LicensePool{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

```

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{1}
}

func (x *LicensePool) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
    if x != nil {
        return x.LicenseAssignmentProtocol
    }
    return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
    if x != nil {
        return x.AvailableLicenseCount
    }
    return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
    if x != nil {
        return x.TotalLicenseCount
    }
    return 0
}

// Request message for getting a
// license pool.
type GetLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. The name of the license pool to get.
    // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

```

```

func (x *GetLicensePoolRequest) Reset() {
    *x = GetLicensePoolRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if
        ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

```



```

// Required. The license pool to update.
//
// The license pool's name field is used to identify the license pool to
// update. Format:
// `billingAccounts/{billing_account}/orders/{order}/licensePool`.
LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
//
Required. The list of fields to update.
UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
*x = UpdateLicensePoolRequest{ }
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

```

```

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
    if x != nil {
        return x.LicensePool
    }
    return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
    if x != nil {
        return x.UpdateMask
    }
    return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign].
type AssignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
(x *AssignRequest) Reset() {
    *x = AssignRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_msgTypes[4]

```

```

if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *AssignRequest) GetUsernames() []string {
    if x != nil {
        return x.Usernames
    }
    return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign].
type AssignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
    *x = AssignResponse{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

```

```

}

func (x *AssignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
    if x
    != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Required. Username.
    // Format: `name@domain.com`.
    Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
{
    *x = UnassignRequest{}
}

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
if x != nil {
return
x.Parent
}
return ""
}

func (x *UnassignRequest) GetUsernames() []string {
if x != nil {
return x.Usernames
}
return nil
}

// Response message for

```

```

//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign].
type UnassignResponse struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
    *x = UnassignResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
    if x != nil {
        ms
        := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers].

```

```

type EnumerateLicensedUsersRequest struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Required. License pool name.
    Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
    // Optional. The maximum number of users to return. The service may return
    // fewer than this value.
    PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
    json:"page_size,omitempty"`
    // Optional. A page token, received from a previous `EnumerateLicensedUsers`
    // call. Provide this to retrieve the subsequent page.
    PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
    *x = EnumerateLicensedUsersRequest{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo()
        == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),

```

```

[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
    if x != nil {
        return x.Parent
    }
    return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
    if x != nil {
        return x.PageSize
    }
    return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
    if x != nil {
        return x.PageToken
    }
    return ""
}

// A licensed user.
type LicensedUser struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Username.
    // Format: `name@domain.com`.
    Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
    //
    // Output only. Timestamp when the license was assigned.
    AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3" json:"assign_time,omitempty"`
    // Output only. Timestamp when the license was recently used. This may not be
    // the most recent usage time, and will be updated regularly (within 24
    // hours).
    RecentUsageTime *timestamppb.Timestamp
    `protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3" json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
    *x = LicensedUser{}
    mi :=

```



```

&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
    if
    x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{9}
}

func (x *LicensedUser) GetUsername() string {
    if x != nil {
        return x.Username
    }
    return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
    if x != nil {
        return x.AssignTime
    }
    return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
    if x != nil {

```

```

    return x.RecentUsageTime
}
return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // The list of licensed users.
    LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
    json:"licensed_users,omitempty"`
    // A token that can be sent as `page_token` to retrieve the next page.
    // If this field is omitted, there are no subsequent pages.
    NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
    json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
    *x = EnumerateLicensedUsersResponse{}
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
(x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
    }
    return ms
}

```

```

    }
    return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
    if x != nil {
        return x.LicensedUsers
    }
    return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
    if x != nil {
        return x.NextPageToken
    }
    return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
    *x = AssignmentProtocol_ManualAssignmentType{}
    mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {

```

```

mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
if x != nil {
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    if ms.LoadMessageInfo() == nil {
        ms.StoreMessageInfo(mi)
    }
    return ms
}
return mi.MessageOf(x)
}

// Deprecated:
Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
    return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Optional. The time to live for an inactive license. After this time has
    // passed, the license will be automatically unassigned from the user. Must
    // be at least 7 days, if set. If unset, the license will never expire.
    InactiveLicenseTtl *durationpb.Duration
    `protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
    json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
    *x = AssignmentProtocol_AutoAssignmentType{}
    mi
    := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
    ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
    return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
    mi :=
    &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
    if x != nil {
        ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
        if ms.LoadMessageInfo() == nil {
            ms.StoreMessageInfo(mi)
        }
        return ms
    }
    return mi.MessageOf(x)
}

```

// Deprecated: Use AssignmentProtocol\_AutoAssignmentType.ProtoReflect.Descriptor instead.

```

func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
    return
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
    []int{0, 1}
}

```

```

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
    if x != nil {
        return x.InactiveLicenseTtl
    }
    return nil
}

```

```

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

```

```

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
    0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
    0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
    0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
    0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
    0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
    0x6f,
    0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
    0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
    0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
    0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
    0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
    0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
    0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
    0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
}

```

0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,  
0x62, 0x75, 0x66, 0x2f, 0x64,  
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,  
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,  
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,  
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,  
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,  
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,  
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,  
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,  
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,  
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,  
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,  
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,  
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,  
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,  
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,  
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,  
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,  
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,  
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,  
0x73,  
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0x31, 0x2f, 0x7b, 0x6e, 0x61, 0x6d, 0x65, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41,  
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0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73,  
0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x12,  
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0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x71, 0xda, 0x41, 0x18, 0x6c,  
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0x2a, 0x2f, 0x6f,  
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0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,

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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
= file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
    })
    return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
    (*AssignmentProtocol)(nil),
        // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
    (*LicensePool)(nil),
        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
    (*GetLicensePoolRequest)(nil),
        // 2:
    google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
    (*UpdateLicensePoolRequest)(nil),
        // 3:
    google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
    (*AssignRequest)(nil),
        // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
    (*AssignResponse)(nil),
        // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
    (*UnassignRequest)(nil),
        // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
    (*UnassignResponse)(nil),
        // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
    (*EnumerateLicensedUsersRequest)(nil),
        // 8:
    google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
}

```

```

(*LicensedUser)(nil),
    // 9: google.cloud.commerce.consumer.prourement.v1.LicensedUser
(*EnumerateLicensedUsersResponse)(nil),    // 10:
google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersResponse
(*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.ManualAssignmentType
(*AssignmentProtocol_AutoAssignmentType)(nil), // 12:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType
(*fieldmaskpb.FieldMask)(nil),    // 13: google.protobuf.FieldMask
(*timestamppb.Timestamp)(nil),    // 14: google.protobuf.Timestamp
(*durationpb.Duration)(nil),    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_prourement_v1_license_management_service_proto_depIdxs =
[]int32{
    11, // 0:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.manual_assignment_type:type_name
-> google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.ManualAssignmentType
    12, // 1: google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType
    0, // 2: google.cloud.commerce.consumer.prourement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol
    1, // 3: google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.prourement.v1.LicensePool
    13, // 4: google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
    14, // 5: google.cloud.commerce.consumer.prourement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
    14, // 6: google.cloud.commerce.consumer.prourement.v1.LicensedUser.recent_usage_time:type_name
-> google.protobuf.Timestamp
    9, // 7:
google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.prourement.v1.LicensedUser
    15, // 8:
google.cloud.commerce.consumer.prourement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
    2, // 9: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.prourement.v1.GetLicensePoolRequest
    3, // 10:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.prourement.v1.UpdateLicensePoolRequest
    4, // 11: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.prourement.v1.AssignRequest
    6, // 12: google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.Unassign:input_type
-> google.cloud.commerce.consumer.prourement.v1.UnassignRequest
    8, // 13:
google.cloud.commerce.consumer.prourement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.prourement.v1.EnumerateLicensedUsersRequest
    1, // 14:

```

```

google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
1, // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
5, // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
7, // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
-> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
14, // [14:19] is the sub-list for method output_type
9, // [9:14] is the sub-list for method input_type
9, // [9:9] is the sub-list for extension type_name
9, // [9:9] is the sub-list for extension extendee
0, // [0:9] is the sub-list for field type_name
}

func init() {
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
    if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
        return
    }
    file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
    Wrappers = []any{
        (*AssignmentProtocol_ManualAssignmentType_)(nil),
        (*AssignmentProtocol_AutoAssignmentType_)(nil),
    }
    type x struct{ }
    out := protoimpl.TypeBuilder{
        File:
        protoimpl.DescBuilder{
            GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
            RawDescriptor:
            file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
            NumEnums: 0,
            NumMessages: 13,
            NumExtensions: 0,
            NumServices: 1,
        },
        GoTypes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
        DependencyIndexes:
        file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
    }

```

```

MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
}.Build()
File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
= nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
    // Gets the license pool.
    GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
    error)
    // Assigns a license to a user.
    Assign(ctx
    context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
    (*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
    cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
    return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {

```

```

out := new(LicensePool)
err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
if err != nil {
    return nil, err
}
return
out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
    out := new(LicensePool)
    err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
    out := new(AssignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
    out := new(UnassignResponse)
    err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
in, out, opts...)
    if err != nil {
        return nil, err
    }
    return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
    out := new(EnumerateLicensedUsersResponse)
    err := c.cc.Invoke(ctx,

```

```

"/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
if err != nil {
    return nil, err
}
return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
    // Gets the license pool.
    GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
    // Updates the license pool if one exists for this Order.
    UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
    // Assigns a license to a user.
    Assign(context.Context, *AssignRequest)
    (*AssignResponse, error)
    // Unassigns a license from a user.
    Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
    // Enumerates all users assigned a license.
    EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
    (*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
    return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
(*AssignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
    return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

```



```

}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
    s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(GetLicensePoolRequest)
    if err := dec(in);
    err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
    }
    handler := func(ctx context.Context, req interface{}) (interface{}, error) {
        return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
    }
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
    in := new(UpdateLicensePoolRequest)
    if err := dec(in); err != nil {
        return nil, err
    }
    if interceptor == nil {
        return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
    }
    info := &grpc.UnaryServerInfo{
        Server:    srv,
        FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
    }
    handler
:= func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
}
    return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {

```

```

in := new(AssignRequest)
if err := dec(in); err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).Assign(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Assign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
in := new(UnassignRequest)
if err := dec(in); err != nil {
    return nil, err
}
if interceptor == nil {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
}
info := &grpc.UnaryServerInfo{
    Server:    srv,
    FullMethod: "/google.cloud.commerce.consumer.prourement.v1.LicenseManagementService/Unassign",
}
handler := func(ctx context.Context, req interface{}) (interface{}, error) {
    return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
}
return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
in := new(EnumerateLicensedUsersRequest)
if err := dec(in); err != nil {
    return nil, err
}
if
interceptor == nil {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
}
info := &grpc.UnaryServerInfo{

```

```

Server:  srv,
FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
}
handler := func(ctx context.Context, req interface{ }) (interface{ }, error) {
    return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
}
return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
    ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
    HandlerType: (*LicenseManagementServiceServer)(nil),
    Methods: []grpc.MethodDesc{
        {
            MethodName: "GetLicensePool",
            Handler:    _LicenseManagementService_GetLicensePool_Handler,
        },
        {
            MethodName: "UpdateLicensePool",
            Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
        },
        {
            MethodName: "Assign",
            Handler:    _LicenseManagementService_Assign_Handler,
        },
        {
            MethodName: "Unassign",
            Handler:    _LicenseManagementService_Unassign_Handler,
        },
        {
            MethodName: "EnumerateLicensedUsers",
            Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
        },
    },
    Streams: []grpc.StreamDesc{ },
    Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}

```

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// Code generated by protoc-gen-go. DO NOT EDIT.

// versions:

// protoc-gen-go v1.35.2

// protoc v4.25.3

// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (

reflect "reflect"

sync "sync"

\_ "google.golang.org/genproto/googleapis/api/annotations"

protorelect "google.golang.org/protobuf/reflect/protorelect"

protoimpl "google.golang.org/protobuf/runtime/protoimpl"

)

const

(

// Verify that this generated code is sufficiently up-to-date.

\_ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)

// Verify that runtime/protoimpl is sufficiently up-to-date.

\_ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)

)



```

// Defines types of the grantee of this permission.
type Permission_GrantType int32

const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GrantType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GrantType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GrantType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GrantType = 3
)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                     1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protoreflect.EnumType {

```

```

return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protoreflect.EnumNumber {
return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
[int]) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
// The default value. This value is unused.
Permission_ROLE_UNSPECIFIED Permission_Role = 0
// Owner can use, update, share and delete the resource.
Permission_OWNER Permission_Role = 1
// Writer can use, update and share the resource.
Permission_WRITER Permission_Role = 2
// Reader can use the resource.
Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
Permission_Role_name = map[int32]string{
0: "ROLE_UNSPECIFIED",
1: "OWNER",
2: "WRITER",
3: "READER",
}
Permission_Role_value = map[string]int32{
"ROLE_UNSPECIFIED": 0,
"OWNER":           1,
"WRITER":          2,
"READER":          3,
}
)

func (x Permission_Role) Enum() *Permission_Role {
p := new(Permission_Role)
*p = x
return p
}

```

```

func (x Permission_Role) String() string {
    return
    protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}

```

```

//
// Output only.
Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
// Optional. Immutable. The type of the grantee.
GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
json:"grantee_type,omitempty"`
// Optional. Immutable. The email address of the user of group which this
// permission refers. Field is not set when permission's grantee type is
// EVERYONE.
EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
// Required. The role granted by this permission.
Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
*x = Permission{}
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
{
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

}

func (x *Permission) GetName() string {
    if x != nil {
        return x.Name
    }
    return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
    if x != nil && x.GranteeType != nil {
        return *x.GranteeType
    }
    return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var
File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
    0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,

```

0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,  
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,  
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,  
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,  
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,  
0x01, 0x01, 0x12,  
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,  
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,  
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,  
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,  
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,  
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,  
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,  
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,  
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,  
0x54,  
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,  
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,  
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,  
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,  
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0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,  
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,  
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,  
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,  
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,  
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,  
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,  
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,  
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,  
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,  
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,  
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,  
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,  
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,  
0x72, 0x6f, 0x6c, 0x65, 0x42,  
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,  
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,  
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,  
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,  
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,  
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,

```

0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
0x72,
0x6f, 0x74, 0x6f, 0x33,
}

var (
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
        protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
    (Permission_GranteeType)(0),
    // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
    (Permission_Role)(0),      // 1: google.ai.generativelanguage.v1beta.Permission.Role
    (*Permission)(nil),        // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
    google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
    google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
{
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{ }
}

```

```

type x struct{ }
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{ }).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
    NumEnums:      2,
    NumMessages:   1,
    NumExtensions: 0,
    NumServices:   0,
  },
  GoTypes:      file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:     file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
= nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

```

# 1.432 [github.com/go-jose/go-jose/v4](https://github.com/go-jose/go-jose/v4) 4.0.5

## 1.432.1 Available under license :

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# 1.433 go-jose-go-jose 4.0.5

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# 1.434 prometheus-client 1.21.1

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# 1.435 github.com/puzpuzpuz/xsync/v3 3.5.1

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# 1.436 xsync 3.5.1

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# 1.437 go-jose 4.0.5

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## 1.438 x-oauth2 0.28.0

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## 1.439 github.com/safchain/ethtool 0.5.10

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# 1.440 google-golang-org-grpc 1.71.0

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# 1.458 [github.com/tklauser/numcpus](https://github.com/tklauser/numcpus) 0.10.0

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Andrew Gerrand <adg@golang.org>  
Brad Fitzpatrick <bradfitz@golang.org>  
Eric Koleda <ekoleda+devrel@goglers.com>  
Francesc Campoy <campoy@golang.org>  
Garrick Evans <garrick@google.com>  
Glenn Lewis <gmlewis@google.com>  
Ivan Krasin <krasin@golang.org>  
Jason Hall <jasonhall@google.com>  
Johan Euphrosine <proppy@google.com>  
Kostik Shtoyk <kostik@google.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Matthew Dolan <dolan@lightstep.com>  
Matthew Whisenhunt <matt.whisenhunt@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Nick Craig-Wood <nickcw@gmail.com>  
Robbie Trencheny <me@robbiet.us>  
Ross Light <light@google.com>  
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## 1.469 cpuid 2.2.10

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# 1.470 [github.com/vbauerster/mpb/v8](https://github.com/vbauerster/mpb/v8) 8.9.3

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# 1.471 go-pretty 6.6.7

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# 1.472 github.com/minio/pkg/v3 3.1.0

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```
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//
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```

package subnet

```
import (
    "context"
    "crypto/tls"
    "fmt"
    "net"
    "net/http"
    "os"
    "strings"
    "time"

    "github.com/lestrrat-go/jwx/v2/jwt"
    "github.com/minio/pkg/v3/licverifier"
)

const (
    publicKeyPath = "/downloads/license-pubkey.pem"

    //
    https://subnet.min.io/downloads/license-pubkey.pem
    publicKeyProd = `-----BEGIN PUBLIC KEY-----
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEaK31xujr6/rZ7ZfXZh3SlwovjC+X8wGq
qkItaKyTLREnd4w3IRktYYCRgzpDLPn/nrf7snV/ERO5qcI7fkEES34IVEr+2Uff
JkO2PfyAYEO/5dBIPh1Undu9WQl6J7B
-----END PUBLIC KEY-----`
    // https://localhost:9000/downloads/license-pubkey.pem
    publicKeyDev = `-----BEGIN PUBLIC KEY-----
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEbo+e1wpBY4tBq9AONKww3Kq7m6QP/TBQ
mr/cKCUyBL7rcAvg0zNq1vcSrUSGIAmY3SEDCu3GOKnjG/U4E7+p957ocWSV+mQU
9NKITdQFGF3+aO6jbQ4hX/S5qPyF+a3z
-----END PUBLIC KEY-----`
)

// LicenseValidator validates the MinIO license.
type LicenseValidator struct {
    Client      http.Client
    LicenseFilePath string
    pubKeyURL    string
    offlinePubKey []byte
    LicenseToken string
    ExpiryGracePeriod time.Duration
}

// LicenseValidatorParams holds parameters for creating a new LicenseValidator.
type LicenseValidatorParams struct {
    TLSClientConfig *tls.Config
```

```

LicenseFilePath
string
LicenseToken    string
ExpiryGracePeriod time.Duration
DevMode         bool
}

// BaseURL returns the base URL for subnet.
func BaseURL(devMode bool) string {
    if devMode {
        subnetURLDev := os.Getenv("SUBNET_URL_DEV")
        if len(subnetURLDev) > 0 {
            return subnetURLDev
        }
        return "http://localhost:9000"
    }

    return "https://subnet.min.io"
}

// NewLicenseValidator returns a new LicenseValidator using the provided tls client Config,
// and license file path. If the path is empty, it will look for minio.license in the
// current working directory. If `devMode` is true, the validator will connect to locally
// running SUBNET instance to download the public key or use the bundled dev key.
func NewLicenseValidator(params LicenseValidatorParams) (*LicenseValidator, error) {
    licPath := params.LicenseFilePath
    licToken := params.LicenseToken
    if licToken == "" {
        licToken = os.Getenv("MINIO_LICENSE")
    }
    if licPath == "" && licToken == "" {
        // if license file path is not
        // provided, and also
        // not set in env variable, expect it to be present
        // in the current working directory
        pwd, err := os.Getwd()
        if err != nil {
            return nil, err
        }
        licPath = pwd + "/minio.license"
    }
    client := http.Client{
        Timeout: 0,
        Transport: &http.Transport{
            DialContext: (&net.Dialer{
                Timeout: 10 * time.Second,
            }).DialContext,
            Proxy: http.ProxyFromEnvironment,

```

```

    TLSClientConfig:    params.TLSClientConfig,
    IdleConnTimeout:    90 * time.Second,
    TLSHandshakeTimeout: 10 * time.Second,
    ExpectContinueTimeout: 10 * time.Second,
},
}
lv := LicenseValidator{
    Client:    client,
    LicenseFilePath: licPath,
    LicenseToken:    licToken,
    ExpiryGracePeriod: params.ExpiryGracePeriod,
}
lv.Init(params.DevMode)
return &lv, nil
}

// Init initializes the LicenseValidator.
func (lv *LicenseValidator) Init(devMode bool) {
    lv.pubKeyURL = fmt.Sprintf("%s%s", BaseURL(devMode), publicKeyPath)
    lv.offlinePubKey = []byte(publicKeyProd)
    if
    devMode {
        lv.offlinePubKey = []byte(publicKeyDev)
    }
}

// ParseLicense parses the license with the public key and return it's information.
// Public key is downloaded from subnet. If there is an error downloading the public key
// it will use the bundled public key instead.
func (lv *LicenseValidator) ParseLicense(license string) (*licverifier.LicenseInfo, error) {
    lvr, e := licverifier.NewLicenseVerifier(lv.offlinePubKey)
    if e != nil {
        return nil, e
    }

    li, e := lvr.Verify(license, jwt.WithAcceptableSkew(lv.ExpiryGracePeriod))
    return &li, e
}

// ValidateLicense validates the license file.
func (lv *LicenseValidator) ValidateLicense() (*licverifier.LicenseInfo, error) {
    if lv.LicenseToken == "" && lv.LicenseFilePath == "" {
        return nil, fmt.Errorf("MinIO license not found")
    }

    if lv.LicenseToken == "" {
        licData, err := os.ReadFile(lv.LicenseFilePath)
        if err != nil {

```

```

    return nil, err
}
lv.LicenseToken = strings.TrimSpace(string(licData))
}

return
lv.ParseLicense(lv.LicenseToken)
}

func getDurationForNextLicenseCheck(li *licverifier.LicenseInfo) time.Duration {
    if li.ExpiresAt.Before(time.Now()) {
        // expired, within grace period. schedule daily
        return time.Hour * 24
    }
    // not expired, schedule to check just after expiry
    return time.Until(li.ExpiresAt.Add(time.Second))
}

func (lv *LicenseValidator) scheduleNextLicenseCheck(li *licverifier.LicenseInfo, acceptedPlans []string,
    licExpiredChan chan<- string) {
    duration := getDurationForNextLicenseCheck(li)
    timer := time.NewTimer(duration)
    defer timer.Stop()

    ctxt := context.Background()
    for {
        select {
        case <-timer.C:
            li, err := lv.ValidateEnterpriseLicense(acceptedPlans, licExpiredChan)
            if err != nil {
                licExpiredChan <- err.Error()
                return
            }
            timer.Reset(getDurationForNextLicenseCheck(li))
        case <-ctxt.Done():
            return
        }
    }
}

// ValidateEnterpriseLicense validates the ENTERPRISE license file.
// Since there are multiple variants of ENTERPRISE
// licenses, ones
// accepted by the application can be passed as `acceptedPlans`.
// TRIAL licenses do not get grace period after expiry.
func (lv *LicenseValidator) ValidateEnterpriseLicense(acceptedPlans []string, licExpiredChan chan<- string)
(*licverifier.LicenseInfo, error) {
    li, err := lv.ValidateLicense()

```

```

if err != nil {
    return nil, err
}

accepted := false
for _, plan := range acceptedPlans {
    if plan == li.Plan {
        accepted = true
        break
    }
}
if !accepted {
    return nil, fmt.Errorf("this software is only available for license plans %v", strings.Join(acceptedPlans, ", "))
}

if li.ExpiresAt.Before(time.Now()) {
    if li.IsTrial || li.Plan == "TRIAL" {
        // no grace period for trial
        return nil, fmt.Errorf("trial license has expired on %v", li.ExpiresAt)
    }
}

// validation successful. start a background routine to validate the license
// - daily if already expired (within grace period)
// - just after expiry if not expired
if licExpiredChan != nil
{
    // if the expiry channel is nil, it means client doesn't want to be notified
    // when license expires. In that case we don't schedule the background check.
    go lv.scheduleNextLicenseCheck(li, acceptedPlans, licExpiredChan)
}

return li, nil
}

```

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Version 3, 19 November 2007

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A



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## 1.473 [github.com/klauspost/cpuid/v2](https://github.com/klauspost/cpuid/v2) 2.2.10

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## 1.474 bubbletea 1.3.4

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# 1.475 minio-pkg 3.1.0

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```
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//
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```

package subnet

```
import (
    "context"
    "crypto/tls"
    "fmt"
    "net"
    "net/http"
    "os"
    "strings"
```

```

"time"

"github.com/lestrrat-go/jwx/v2/jwt"
"github.com/minio/pkg/v3/licverifier"
)

const (
    publicKeyPath = "/downloads/license-pubkey.pem"

    //
    https://subnet.min.io/downloads/license-pubkey.pem
    publicKeyProd = `-----BEGIN PUBLIC KEY-----
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEaK31xujr6/rZ7ZfXZh3SlwovjC+X8wGq
qkItaKyTLREnd4w3IRktYYCRgZpDLpN/nrf7snV/ERO5qcI7fkEES34IVEr+2Uff
JkO2PfyyAYEO/5dB1Ph1Undu9WQl6J7B
-----END PUBLIC KEY-----`
    // https://localhost:9000/downloads/license-pubkey.pem
    publicKeyDev = `-----BEGIN PUBLIC KEY-----
MHYwEAYHKoZIzj0CAQYFK4EEACIDYgAEbo+e1wpBY4tBq9AONKww3Kq7m6QP/TBQ
mr/cKCUyBL7rcAvg0zNq1vcSrUSGIaMY3SEDCu3GOKnjG/U4E7+p957ocWSV+mQU
9NKITdQFGF3+aO6jbQ4hX/S5qPyF+a3z
-----END PUBLIC KEY-----`
)

// LicenseValidator validates the MinIO license.
type LicenseValidator struct {
    Client      http.Client
    LicenseFilePath string
    pubKeyURL    string
    offlinePubKey []byte
    LicenseToken string
    ExpiryGracePeriod time.Duration
}

// LicenseValidatorParams holds parameters for creating a new LicenseValidator.
type LicenseValidatorParams struct {
    TLSClientConfig *tls.Config
    LicenseFilePath string
    LicenseToken    string
    ExpiryGracePeriod time.Duration
    DevMode         bool
}

// BaseURL returns the base URL for subnet.
func BaseURL(devMode bool) string {
    if devMode {
        subnetURLDev := os.Getenv("SUBNET_URL_DEV")
    }

```

```

if len(subnetURLDev) > 0 {
    return subnetURLDev
}
return "http://localhost:9000"
}

return "https://subnet.min.io"
}

// NewLicenseValidator returns a new LicenseValidator using the provided tls client Config,
// and license file path. If the path is empty, it will look for minio.license in the
// current working directory. If `devMode` is true, the validator will connect to locally
// running SUBNET instance to download the public key or use the bundled dev key.
func NewLicenseValidator(params LicenseValidatorParams) (*LicenseValidator, error) {
    licPath := params.LicenseFilePath
    licToken := params.LicenseToken
    if licToken == "" {
        licToken = os.Getenv("MINIO_LICENSE")
    }
    if licPath == "" && licToken == "" {
        // if license file path is not
        // provided, and also
        // not set in env variable, expect it to be present
        // in the current working directory
        pwd, err := os.Getwd()
        if err != nil {
            return nil, err
        }
        licPath = pwd + "/minio.license"
    }
    client := http.Client{
        Timeout: 0,
        Transport: &http.Transport{
            DialContext: (&net.Dialer{
                Timeout: 10 * time.Second,
            }).DialContext,
            Proxy: http.ProxyFromEnvironment,
            TLSClientConfig: params.TLSClientConfig,
            IdleConnTimeout: 90 * time.Second,
            TLSHandshakeTimeout: 10 * time.Second,
            ExpectContinueTimeout: 10 * time.Second,
        },
    }
    lv := LicenseValidator{
        Client: client,
        LicenseFilePath: licPath,
        LicenseToken: licToken,
        ExpiryGracePeriod: params.ExpiryGracePeriod,
    }
}

```



```

}
lv.Init(params.DevMode)
return &lv, nil
}

// Init initializes the LicenseValidator.
func (lv *LicenseValidator) Init(devMode bool) {
    lv.pubKeyURL = fmt.Sprintf("%s%s", BaseURL(devMode), publicKeyPath)
    lv.offlinePubKey = []byte(publicKeyProd)
    if
    devMode {
        lv.offlinePubKey = []byte(publicKeyDev)
    }
}

// ParseLicense parses the license with the public key and return it's information.
// Public key is downloaded from subnet. If there is an error downloading the public key
// it will use the bundled public key instead.
func (lv *LicenseValidator) ParseLicense(license string) (*licverifier.LicenseInfo, error) {
    lvr, e := licverifier.NewLicenseVerifier(lv.offlinePubKey)
    if e != nil {
        return nil, e
    }

    li, e := lvr.Verify(license, jwt.WithAcceptableSkew(lv.ExpiryGracePeriod))
    return &li, e
}

// ValidateLicense validates the license file.
func (lv *LicenseValidator) ValidateLicense() (*licverifier.LicenseInfo, error) {
    if lv.LicenseToken == "" && lv.LicenseFilePath == "" {
        return nil, fmt.Errorf("MinIO license not found")
    }

    if lv.LicenseToken == "" {
        licData, err := os.ReadFile(lv.LicenseFilePath)
        if err != nil {
            return nil, err
        }
        lv.LicenseToken = strings.TrimSpace(string(licData))
    }

    return
    lv.ParseLicense(lv.LicenseToken)
}

func getDurationForNextLicenseCheck(li *licverifier.LicenseInfo) time.Duration {
    if li.ExpiresAt.Before(time.Now()) {

```

```

// expired, within grace period. schedule daily
return time.Hour * 24
}
// not expired, schedule to check just after expiry
return time.Until(li.ExpiresAt.Add(time.Second))
}

func (lv *LicenseValidator) scheduleNextLicenseCheck(li *licverifier.LicenseInfo, acceptedPlans []string,
licExpiredChan chan<- string) {
    duration := getDurationForNextLicenseCheck(li)
    timer := time.NewTimer(duration)
    defer timer.Stop()

    ctxt := context.Background()
    for {
        select {
        case <-timer.C:
            li, err := lv.ValidateEnterpriseLicense(acceptedPlans, licExpiredChan)
            if err != nil {
                licExpiredChan <- err.Error()
                return
            }
            timer.Reset(getDurationForNextLicenseCheck(li))
        case <-ctxt.Done():
            return
        }
    }
}

// ValidateEnterpriseLicense validates the ENTERPRISE license file.
// Since there are multiple variants of ENTERPRISE
// licenses, ones
// accepted by the application can be passed as `acceptedPlans`.
// TRIAL licenses do not get grace period after expiry.
func (lv *LicenseValidator) ValidateEnterpriseLicense(acceptedPlans []string, licExpiredChan chan<- string)
(*licverifier.LicenseInfo, error) {
    li, err := lv.ValidateLicense()
    if err != nil {
        return nil, err
    }

    accepted := false
    for _, plan := range acceptedPlans {
        if plan == li.Plan {
            accepted = true
            break
        }
    }
}

```

```

if !accepted {
    return nil, fmt.Errorf("this software is only available for license plans %v", strings.Join(acceptedPlans, ", "))
}

if li.ExpiresAt.Before(time.Now()) {
    if li.IsTrial || li.Plan == "TRIAL" {
        // no grace period for trial
        return nil, fmt.Errorf("trial license has expired on %v", li.ExpiresAt)
    }
}

// validation successful. start a background routine to validate the license
// - daily if already expired (within grace period)
// - just after expiry if not expired
if licExpiredChan != nil
{
    // if the expiry channel is nil, it means client doesn't want to be notified
    // when license expires. In that case we don't schedule the background check.
    go lv.scheduleNextLicenseCheck(li, acceptedPlans, licExpiredChan)
}

return li, nil
}

```

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Version 3, 19 November 2007

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## 1.481 github.com/minio/crc64nvme 1.0.1

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# 1.482 [github.com/azure/azure-sdk-for-go/sdk/storage/azblob](https://github.com/azure/azure-sdk-for-go/sdk/storage/azblob) 1.6.0

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//go:build go1.18

// +build go1.18

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```

// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
    "context"
    "errors"
    "fmt"
    azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
    "github.com/Azure/azure-sdk-for-go/sdk/resourceanager/hybridcompute/armhybridcompute/v2"
    "net/http"
    "net/url"
    "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
    // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
    // HTTP status codes to indicate success:
    http.StatusOK
    BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

    // BeginDelete is the fake for method LicensesClient.BeginDelete
    // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
    BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

    // Get is the fake for method LicensesClient.Get
    // HTTP status codes to indicate success: http.StatusOK
    Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
errResp azfake.ErrorResponder)

    // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
    // HTTP status codes to indicate success: http.StatusOK
    NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

```

```

// NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
// HTTP status codes to indicate success: http.StatusOK
NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

// BeginUpdate is the fake for method LicensesClient.BeginUpdate
// HTTP status codes to indicate success: http.StatusOK
BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

// BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
// HTTP status codes to indicate success: http.StatusOK
BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
{
return &LicensesServerTransport{
    srv:          srv,
    beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
    beginDelete:    newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
    newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
    newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
    beginUpdate:    newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
    beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
}
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
instead.
type LicensesServerTransport struct {
    srv          *LicensesServer
    beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]

```

```

beginDelete          *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
beginUpdate          *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
    rawMethod := req.Context().Value(runtime.CtxAPINameKey{ })
    method,
    ok := rawMethod.(string)
    if !ok {
        return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
    }

    var resp *http.Response
    var err error

    switch method {
    case "LicensesClient.BeginCreateOrUpdate":
        resp, err = l.dispatchBeginCreateOrUpdate(req)
    case "LicensesClient.BeginDelete":
        resp, err = l.dispatchBeginDelete(req)
    case "LicensesClient.Get":
        resp, err = l.dispatchGet(req)
    case "LicensesClient.NewListByResourceGroupPager":
        resp, err = l.dispatchNewListByResourceGroupPager(req)
    case "LicensesClient.NewListBySubscriptionPager":
        resp, err = l.dispatchNewListBySubscriptionPager(req)
    case "LicensesClient.BeginUpdate":
        resp, err = l.dispatchBeginUpdate(req)
    case "LicensesClient.BeginValidateLicense":
        resp, err = l.dispatchBeginValidateLicense(req)
    default:
        err = fmt.Errorf("unhandled API %s", method)
    }

    if err != nil {
        return nil, err
    }

    return resp, nil
}

```



```

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
*http.Request) (*http.Response, error) {
if l.srv.BeginCreateOrUpdate == nil {
return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
}
beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
if beginCreateOrUpdate == nil {
const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-
9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-
9~% @ ]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)`
regex := regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
if err != nil {
return nil, err
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
if err != nil {
return
nil, err
}
licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
return nil, err
}
respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
return nil, respErr
}
beginCreateOrUpdate = &respr
l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
l.beginCreateOrUpdate.remove(req)
return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {

```

```

l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
    if l.srv.BeginDelete
    == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
    }
    beginDelete := l.beginDelete.get(req)
    if beginDelete == nil {
        const regexStr = `subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/providers/Microsoft\HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if err != nil {
            return nil, err
        }
        licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
        if
        respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginDelete = &respr
        l.beginDelete.add(req, beginDelete)
    }

    resp, err := server.PollerResponderNext(beginDelete, req)
    if err != nil {
        return nil, err
    }

    if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
        l.beginDelete.remove(req)
        return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK, http.StatusNoContent", resp.StatusCode)}
    }
}

```

```

if !server.PollerResponderMore(beginDelete) {
    l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
    if l.srv.Get == nil {
        return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
    }
    const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/providers/Microsoft\HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)`
    regex
    := regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 3 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
    if respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    respContent := server.GetResponseContent(respr)
    if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
        return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
    }
    resp, err := server.MarshalResponseAsJSON(respContent,
server.GetResponse(respr).License, req)
    if err != nil {
        return nil, err
    }
    return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
    if l.srv.NewListByResourceGroupPager == nil {

```

```

return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
}
newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
if newListByResourceGroupPager == nil {
    const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+ )/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses`
    regex := regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 2 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if
err != nil {
        return nil, err
    }
    resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
    newListByResourceGroupPager = &resp
    l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
    server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
        page.NextLink = to.Ptr(createLink())
    })
}
resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
    return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.newListByResourceGroupPager.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
    l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
    if l.srv.NewListBySubscriptionPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
    }
    newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
    if newListBySubscriptionPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+ )/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses`

```

```

9~% @ ]+)/providers/Microsoft\HybridCompute/licenses`
    regex := regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 1 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    resp := l.srv.NewListBySubscriptionPager(nil)
    newListBySubscriptionPager = &resp
    l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
    server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
    page.NextLink = to.Ptr(createLink())
    })
}
resp,
err := server.PagerResponderNext(newListBySubscriptionPager, req)
if err != nil {
    return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.newListBySubscriptionPager.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListBySubscriptionPager) {
    l.newListBySubscriptionPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
    if l.srv.BeginUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
    }
    beginUpdate := l.beginUpdate.get(req)
    if beginUpdate == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-
9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-
9~% @ ]+)/providers/Microsoft\HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)`
        regex
:= regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
        if err != nil {
            return nil, err

```

```

    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
    if respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    beginUpdate = &respr
    l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
    l.beginUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
    l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
    if l.srv.BeginValidateLicense == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
    }
    beginValidateLicense := l.beginValidateLicense.get(req)
    if beginValidateLicense == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/validateLicense`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
    }
}

```

```

body,
err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
if err != nil {
    return nil, err
}
respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
    return nil, respErr
}
beginValidateLicense = &respr
l.beginValidateLicense.add(req, beginValidateLicense)
}

resp, err := server.PollerResponderNext(beginValidateLicense, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.beginValidateLicense.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
    l.beginValidateLicense.remove(req)
}

return resp, nil
}
azwebpubsub

```

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```
{
  "main": "dist/src/index.js",
  "dependencies": {
    "@azure-tools/typespec-go": "0.4.2"
  },
  "devDependencies": {
    "@azure-tools/typespec-autorest": "0.54.0",
```

```

"@azure-tools/typespec-azure-core": "0.54.0",
"@azure-tools/typespec-azure-resource-manager": "0.54.0",
"@azure-tools/typespec-azure-rulesets": "0.54.0",
"@azure-tools/typespec-client-generator-core": "0.54.0",
"@typespec/compiler": "1.0.0-rc.0",
"@typespec/http": "1.0.0-rc.0",
"@typespec/openapi": "1.0.0-rc.0",
"@typespec/rest": "0.68.0",
"@typespec/versioning": "0.68.0",
"@typespec/streams": "0.68.0",
"@typespec/events": "0.68.0",
"@typespec/sse": "0.68.0",
"@azure-tools/typespec-liftr-base": "0.8.0"
}
}

```

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```
//go:build go1.18
```

```
// +build go1.18
```

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```

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```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package armhybridcompute
```

```
import (  
    "context"  
    "errors"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"  
    "net/http"  
    "net/url"  
    "strings"  
)
```

```
// LicensesClient contains the methods for the Licenses group.
```

```
// Don't use this type directly, use NewLicensesClient() instead.
```

```
type LicensesClient struct {  
    internal    *arm.Client  
    subscriptionID string  
}
```

```
// NewLicensesClient creates a new instance of LicensesClient with the specified values.
```

```
// - subscriptionID - The ID of the target  
subscription.
```

```
// - credential - used to authorize requests. Usually a credential from azidentity.
```

```
// - options - pass nil to accept the default values.
```

```
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)  
(*LicensesClient, error) {
```

```
    cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
```

```

if err != nil {
    return nil, err
}
client := &LicensesClient{
    subscriptionID: subscriptionID,
    internal:      cl,
}
return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - parameters - Parameters supplied to the Create license operation.
// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
    }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {

```

```

var err error
const operationName = "LicensesClient.BeginCreateOrUpdate"
ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
defer func() { endSpan(err) }()
req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
if err != nil {
    return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
    return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
    err = runtime.NewResponseError(httpResp)
    return nil, err
}
return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx,
http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()

```

```

req.Raw().Header["Accept"] = []string{"application/json"}
if err := runtime.MarshalAsJSON(req, parameters); err != nil {
    return nil, err
}
return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
            Tracer: client.internal.Tracer(),
        })
    }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
    var err error
    const
        operationName = "LicensesClient.BeginDelete"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()

```



```

req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
if err != nil {
    return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
    return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
    err = runtime.NewResponseError(httpResp)
    return nil, err
}
return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if
client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}

// Get - Retrieves information about the view of a license.
//

```

If the operation fails it returns an \*azcore.ResponseError type.

```
//  
// Generated from API version 2024-07-31-preview  
// - resourceGroupName - The name of the resource group. The name is case insensitive.  
// - licenseName - The name of the license.  
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.  
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options  
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {  
    var err error  
    const operationName = "LicensesClient.Get"  
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)  
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)  
    defer func() { endSpan(err) }()  
    req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)  
    if err != nil {  
        return LicensesClientGetResponse{ }, err  
    }  
    httpResp, err := client.internal.Pipeline().Do(req)  
    if err != nil  
    {  
        return LicensesClientGetResponse{ }, err  
    }  
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {  
        err = runtime.NewResponseError(httpResp)  
        return LicensesClientGetResponse{ }, err  
    }  
    resp, err := client.getHandleResponse(httpResp)  
    return resp, err  
}  
  
// getCreateRequest creates the Get request.  
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName  
string, options *LicensesClientGetOptions) (*policy.Request, error) {  
    urlPath :=  
    "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens  
es/{licenseName}"  
    if client.subscriptionID == "" {  
        return nil, errors.New("parameter client.subscriptionID cannot be empty")  
    }  
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))  
    if resourceGroupName == "" {  
        return nil, errors.New("parameter resourceGroupName cannot be empty")  
    }  
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))  
    if  
    licenseName == "" {  
        return nil, errors.New("parameter licenseName cannot be empty")  
    }  
}
```

```

urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
    result := LicensesClientGetResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
        return LicensesClientGetResponse{}, err
    }
    return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
// LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
        More: func(page LicensesClientListByResourceGroupResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
        Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
            ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
            nextLink := ""
            if page != nil {
                nextLink = *page.NextLink
            }
            resp,
            err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
                return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
            }, nil)
            if err != nil {

```

```

    return LicensesClientListByResourceGroupResponse{ }, err
}
return client.listByResourceGroupHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
}))
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if
client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{ "application/json" }
    return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
    result := LicensesClientListByResourceGroupResponse{ }
    if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
        return LicensesClientListByResourceGroupResponse{ }, err
    }
    return
result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview

```

```
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
        More: func(page LicensesClientListBySubscriptionResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
        Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
            ctx = context.WithValue(ctx, runtime.CtxAPINameKey {}, "LicensesClient.NewListBySubscriptionPager")
            nextLink := ""
            if page != nil {
                nextLink = *page.NextLink
            }
            resp,
            err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
                return client.listBySubscriptionCreateRequest(ctx, options)
            }, nil)
            if err != nil {
                return LicensesClientListBySubscriptionResponse{ }, err
            }
            return client.listBySubscriptionHandleResponse(resp)
        },
        Tracer: client.internal.Tracer(),
    })
}
```

```
// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}
```

```

}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
    result := LicensesClientListBySubscriptionResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
        return LicensesClientListBySubscriptionResponse{}, err
    }
    return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName
//   - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
            Tracer:
client.internal.Tracer(),
        })
    }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview

```

```

func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return
        nil, err
    }
    return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")

```

```

req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{ "application/json" }
if err := runtime.MarshalAsJSON(req, parameters); err != nil {
    return nil, err
}
return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.validateLicense(ctx, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
            Tracer: client.internal.Tracer(),
        })
    }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginValidateLicense"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)

```



```

defer func() { endSpan(err) }()
req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
if err != nil {
    return nil, err
}
httpResp, err := client.internal.Pipeline().Do(req)
if err != nil {
    return nil, err
}
if !runtime.HasStatusCode(httpResp, http.StatusOK) {
    err = runtime.NewResponseError(httpResp)
    return nil, err
}
return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
    if client.subscriptionID
    == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }
    return req, nil
}

```

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```

//go:build go1.18
// +build go1.18

// Copyright (c) Microsoft Corporation. All rights reserved.
// Licensed under the MIT License. See License.txt in the project root for license information.
// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
    "context"
    "log"

    "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
    "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
    "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err !=
    nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
        Location: to.Ptr("eastus2euap"),
        Properties: &armhybridcompute.LicenseProperties{
            LicenseDetails: &armhybridcompute.LicenseDetails{
                Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
                Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
                Processors: to.Ptr[int32](6),
                State:    to.Ptr(armhybridcompute.LicenseStateActivated),
                Target:   to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
            },
            LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
        },
    }, nil)
    if err != nil {

```

```

log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err !=
nil {
log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](2),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
//
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenandId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",

```

```

"{licenseName}", armhybridcompute.License{
    Location: to.Ptr("eastus2euap"),
    Properties: &armhybridcompute.LicenseProperties{
        LicenseDetails: &armhybridcompute.LicenseDetails{
            Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
            Edition:  to.Ptr(armhybridcompute.LicenseEditionDatacenter),
            Processors: to.Ptr[int32](6),
            State:    to.Ptr(armhybridcompute.LicenseStateActivated),
            Target:    to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
        },
        LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
    },
}, nil)
if err != nil {
    log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
    log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//     Name: to.Ptr("{licenseName}"),
//     Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//     ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//     Location: to.Ptr("eastus2euap"),
//     Properties: &armhybridcompute.LicenseProperties{
//         LicenseDetails: &armhybridcompute.LicenseDetails{
//             Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//             AssignedLicenses: to.Ptr[int32](2),
//             Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//             ImmutableID: to.Ptr("<generated Guid>"),
//             Processors: to.Ptr[int32](6),
//             State: to.Ptr(armhybridcompute.LicenseStateActivated),
//             Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//         },
//         LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//         TenantID: to.Ptr("{tenantId}"),
//     },
// }
}

```

```
// Generated
from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
    Properties: &armhybridcompute.LicenseUpdateProperties{
        LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
            Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
            Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
            Processors:
to.Ptr[int32](6),
            State:    to.Ptr(armhybridcompute.LicenseStateActivated),
            Target:   to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
        },
        LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
    },
}, nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    res, err := poller.PollUntilDone(ctx, nil)
    if err != nil {
        log.Fatalf("failed to pull the result: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //   Name: to.Ptr("{licenseName}"),
    //   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
    //   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
    //
    //   Location: to.Ptr("eastus2euap"),
    //   Properties: &armhybridcompute.LicenseProperties{
```

```

// LicenseDetails: &armhybridcompute.LicenseDetails{
//   Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//   AssignedLicenses: to.Ptr[int32](8),
//   Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//   ImmutableID: to.Ptr("<generated Guid>"),
//   Processors: to.Ptr[int32](6),
//   State: to.Ptr(armhybridcompute.LicenseStateActivated),
//   Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if
    err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //   Name: to.Ptr("{licenseName}"),
    //   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
    //   ID:
    to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
    enses/{licenseName}"),
    //
    //   Location: to.Ptr("eastus2euap"),
    //   Properties: &armhybridcompute.LicenseProperties{
    //     LicenseDetails: &armhybridcompute.LicenseDetails{
    //       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),

```

```

// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
_, err = poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()

```



```

clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
    log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
for pager.More() {
    page, err := pager.NextPage(ctx)
    if err != nil {
        log.Fatalf("failed to advance page: %v", err)
    }
    for _, v := range page.Value {
        // You could use page here. We use blank identifier for just demo purposes.
        _ = v
    }
    // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
    Please pay attention that all the values in the output are fake values for just demo purposes.
    // page.LicensesListResult = armhybridcompute.LicensesListResult{
    //     Value: []*armhybridcompute.License{
    //         {
    //             Name: to.Ptr("{licenseName}"),
    //             Type: to.Ptr("Microsoft.HybridCompute/licenses"),
    //             ID: to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
    //             Location: to.Ptr("eastus2euap"),
    //             Properties: &armhybridcompute.LicenseProperties{
    //                 LicenseDetails: &armhybridcompute.LicenseDetails{
    //                     Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    //                     AssignedLicenses: to.Ptr[int32](8),
    //                     Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    //                     ImmutableID: to.Ptr("<generated Guid>"),
    //                     Processors: to.Ptr[int32](6),
    //                     State: to.Ptr(armhybridcompute.LicenseStateActivated),
    //                     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
    //                 },
    //                 LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
    //                 TenantID: to.Ptr("{tenantId}"),
    //             },
    //         },
    //     },
    // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ListBySubscription.json

```

```

func
ExampleLicensesClient_NewListBySubscriptionPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
page, err := pager.NextPage(ctx)
if err != nil {
log.Fatalf("failed to advance page: %v", err)
}
for _, v := range page.Value {
// You could use page here. We use blank identifier for just demo purposes.
_ = v
}
// If the HTTP response code is 200 as defined in example definition, your page structure would look as
// follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }},
// }

```

```
}  
}
```

# 1.483 prometheus-common 0.63.0

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# 1.484 opentelemetry-operations-go-internal-resourcemapping 0.51.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.487 minio-console 1.7.6

## 1.487.1 Available under license :

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```

```
import React, { Fragment } from "react";
import styled from "styled-components";
import get from "lodash/get";
```

```
const LinkElement = styled.a(({ theme }) => ({
  color: get(theme, "signalColors.info", "#2781B0"),
  fontWeight: 600,
}));
```

```
const makeLink
= (text: string, link: string) => {
  return (
    <LinkElement href={link} target={"_blank"}>
      {text}
    </LinkElement>
  )
}
```

```

);
};

const LicenseFAQ = () => {
  return (
    <Fragment>
      <h2>What is the GNU AGPL v3?</h2>
      <p>
        The GNU AGPL v3 is short for the "GNU Affero General Public License v3".
        It is a{" " }
        {makeLink(
          "FOSS",
          "https://en.wikipedia.org/wiki/Free_and_open-source_software",
        )}{ " " }
        license certified by the{" " }
        {makeLink("Free Software Foundation", "https://www.fsf.org/")} and the
        Open Source Initiative. You can get a copy of the GNU AGPL v3 license
        with MinIO source code or at{" " }
        {makeLink(
          "https://www.gnu.org/licenses/agpl-3.0.en.html",
          "https://min.io/compliance?ref=con",
        )}
        .
      </p>
      <h2>What does it mean for me to comply with the GNU AGPL v3?</h2>
      <p>
        When you host or distribute MinIO over a network,
        the AGPL v3 applies to
        you. Any distribution or copying of MinIO software modified or not has
        to comply with the obligations specified in the AGPL v3 license. You
        must include the source code, full license text and the original
        copyright notice along with the object code.
      </p>
      <p>
        We recommend the{" " }
        {makeLink(
          "Free Software Foundations interpretation",
          "https://www.gnu.org/licenses/agpl-3.0.en.html",
        )}{ " " }
        of the GNU AGPL v3 license.
      </p>
      <h2>Making combined or derivative works of MinIO</h2>
      <p>
        Creating combined or derivative works of MinIO requires all such works
        to be released under the same license.
      </p>
      <p>

```

If MinIO source code is included in the same executable file, they are definitely combined in one program. If modules are designed to run linked together in a shared address space, that almost surely means combining them into one program.

</p>

<p>

By contrast, pipes, sockets, RESTful APIs, and command-line arguments are communication mechanisms normally used between two separate programs. So when they are used for communication, the modules normally are separate programs. But if the semantics of the communication are intimate enough, exchanging complex internal data structures, that too could be a basis to consider the two parts as combined into a larger program.

</p>

<p>

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"GPL FAQ",  
"https://www.gnu.org/licenses/gpl-faq.en.html#MereAggregation",  
)}  
.

</p>

<p></p>

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<p>

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your own attorney

for legal advice. Purchasing a commercial license from MinIO removes the  
GNU AGPL v3 obligations from MinIO software.

</p>

</Fragment>

);

};

export default LicenseFAQ;

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```

```
import React from "react";  
import ModalWrapper from "../Common/ModalWrapper/ModalWrapper";
```

```
import { AGPLV3DarkLogo, Box, Button } from "mds";  
import { setLicenseConsent } from "../utils";  
import LicenseLink from "../LicenseLink";  
import LicenseFAQ from  
  "../LicenseFAQ";
```

```
const LicenseConsentModal = ({  
  isOpen,  
  onClose,  
}): {  
  onClose: () => void;  
  isOpen: boolean;  
}) => {  
  const recordAgplConsent = () => {  
    setLicenseConsent(); //to Local storage.  
    onClose();  
  };  
};
```

```
return (  
  <ModalWrapper  
    modalOpen={isOpen}  
    title="License"  
    onClose={() => {  
      onClose();  
    }}  
  >  
    <Box  
      sx={{  
        display: "flex",  
        flexFlow: "column",  
        "& .link-text": {  
          color: "#2781B0",  
          fontWeight: 600,  
        },  
      }}  
    >  
      <Box  
        sx={{  
          display: "flex",  
          alignItems: "center",
```



```

marginBottom: "40px",
justifyContent: "center",
"& .min-icon": {
  fill: "blue",
  width: "188px",
  height: "62px",
},
}}
>
<AGPLV3DarkLogo />
</Box>
<Box
  sx={{
    marginBottom: "27px",
  }}
>
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  rel="noopener"
  className={"link-text"}
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</a>
</Box>
<Box
  sx={{
    paddingBottom: "23px",
  }}
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the license obligations, we offer a commercial license which is
available here:{ " "}
<a
  href={`https://min.io/signup?ref=con`}
  rel="noopener"
  className={"link-text"}
>
  https://min.io/signup.
</a>
</Box>

<LicenseFAQ />

```

```

<Box
  sx={{
    marginTop: "19px",
    display: "flex",
    alignItems: "center",
    justifyContent: "center",
  }}
>
  <Button
    id={"confirm"}
    type="button"
    variant="callAction"
    onClick={recordAgplConsent}
    label={"Acknowledge"}
  />
</Box>
</Box>
</ModalWrapper>
);
};

export default LicenseConsentModal;
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export interface SubnetInfo {
  account_id: number;
  email: string;
  expires_at: string;
  plan: string;
  storage_capacity: number;
  organization: string;
}
// This file is part of MinIO Console Server
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```

```
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import React, { Fragment } from "react";
import { Box, Button } from "mds";
import { SubnetInfo } from "./types";
import { FEATURE_ITEMS, FeatureItem, LICENSE_PLANS_INFORMATION } from "./utils";
import styled from "styled-components";
import
  get from "lodash/get";
import CheckIcon from "./CheckIcon";

interface IRegisterStatus {
  activateProductModal: any;
  closeModalAndFetchLicenseInfo: any;
  licenseInfo: SubnetInfo | undefined;
  currentPlanID: number;
  setActivateProductModal: any;
}

const LicensesInformation = styled.div(({ theme }) => ({
  display: "grid",
  gridTemplateColumns: "repeat(1, minmax(350px, 400px));",
  alignItems: "center",
  justifyContent: "center",
  marginTop: 30,
  marginLeft: 30,
  "& > div": {
    borderBottom: `${get(theme, "borderColor", "#EAEAEA")} 1px solid`,
    padding: "13px 20px",
    justifyContent: "center",
    "&.openSource": {
      borderRight: `#002562 2px solid`,
      borderLeft: `#002562 2px solid`,
      position: "relative",
      "&.first:before": {
        content: ""
      }
    }
  }
}));
```

```

width: "calc(100% + 4px)",
height: 16,
display: "block",
backgroundColor: "#001F55",
position: "absolute",
top: -14,
left: -2,
border:
`#002562 2px solid`,
borderBottom: 0,
borderTopLeftRadius: 12,
borderTopRightRadius: 12,
},
"&.last": {
paddingBottom: 30,
"&:after": {
content: "" "",
width: "calc(100% + 4px)",
height: 16,
display: "block",
position: "absolute",
bottom: -14,
left: -2,
border: `#002562 2px solid`,
borderTop: 0,
borderBottomLeftRadius: 12,
borderBottomRightRadius: 12,
},
},
},
"&.feature-information": {
textAlign: "center",
},
"&.feature-label": {
paddingLeft: 5,
},
"&.noBorderBottom": {
borderBottom: 0,
},
},
"& .planName": {
fontWeight: 600,
fontSize: 35,
marginBottom: 20,
textAlign: "center",
marginTop: 10,
},
"& .planIcon": {

```

```

height: 45,
display: "flex",
alignItems: "flex-start",
justifyContent: "center",
"& svg": {
  height: 35,
},
"&.commercial": {
  "& svg": {
    height: 20,
  },
},
},
"& .planDescription": {
  display: "flex",
  justifyContent: "center",
},
}));

```

```

const LicensePlans = ({ licenseInfo }: IRegisterStatus) => {
  let currentPlan = !licenseInfo
    ? "community"
    : licenseInfo?.plan?.toLowerCase();

```

```

const getButton = (link: string, btnText: string, variant: any) => {
  let linkToNav =
    currentPlan !== "community" ? "https://subnet.min.io" : link;
  return (
    <Button
      id={`license-action-${link}`}
      variant={variant}
      sx={{
        marginTop: "12px",
        width: "80%",
        height: "55px",
      }}
      onClick={(e) => {
        e.preventDefault();

        window.open(`${linkToNav}?ref=con`, "_blank");
      }}
      label={btnText}
    />
  );
};

```

```

const renderFeatureInformation = (content: FeatureItem | null) => {
  if (content) {

```

```

return (
  <Fragment>
    {content.content}
    {content.isCheck && <CheckIcon style={{ width: 16, height: 16 }} />}
  </Fragment>
);
}
return <Fragment />;
};

```

```

return (
  <LicensesInformation>
    {[null, ...LICENSE_PLANS_INFORMATION].map((element, index) => {
      return (
        <Box
          key={` ${element?.planType}-${index}`}
          className={` ${index === 1 ? "openSource first" : ""}`}
        >
          {element !== null && (
            <Box>
              <Box className={"planName"}>{element.planName}</Box>
              <Box
                className={` planIcon ${
                  element.planType === "commercial" ? "commercial" : ""
                }}
              >
                {element?.planIcon}
              </Box>
              <Box className={"planDescription"}>
                {element?.planDescription}
              </Box>
            </Box>
          )}
        </Box>
      );
    })}
    {FEATURE_ITEMS.map((feature,
index) => {
      return (
        <Box
          key={` ${feature.featureLabel}-${index}`}
          className={` feature-information`}
          sx={{
            display: "flex",
            borderLeft: `#002562 2px solid`,
            borderRight: `#002562 2px solid`,
            flexDirection: "column",
            gap: "10px",

```

```

        alignItems: "center",
    }}
>
    <Box className={`feature-label`} >{feature.featureLabel}</Box>
    {renderFeatureInformation(feature.featurePlans.eosPlus || null)}
</Box>
);
}}
{[...LICENSE_PLANS_INFORMATION].map((element) => {
return element && currentPlan === "community" ? (
    <div
        key="plan-subscribe-btn"
        style={{
            borderLeft: `#002562 2px solid`,
            display: "flex",
            alignItems: "center",
            justifyContent: "center",
            borderRight: `#002562 2px solid`,
            borderBottom: `#002562 2px solid`,
            borderBottomLeftRadius: "10px",
            borderBottomRightRadius: "10px",
        }}
    >
        {getButton(
            element.planType === "commercial"
                ? `https://min.io/signup`
                : `https://slack.min.io`,
            element.planType === "commercial" ? "Subscribe" : "Join Slack",
            element.planType === "commercial" ? "callAction" : "regular",
        )}
    </div>
): (
    <div
        key="plan-subscribe-btn-1"
        style={{
            borderLeft: `#002562 2px solid`,
            display: "flex",
            alignItems: "center",
            justifyContent: "center",
            borderRight: `#002562 2px solid`,
            borderBottom: `#002562 2px solid`,
            borderBottomLeftRadius: "10px",
            borderBottomRightRadius: "10px",
        }}
    >
        {getButton(
            `https://subnet.min.io/`,
            "Log in to SUBNET",

```

```

        "callAction",
    })
</div>

);
}}
</LicensesInformation>

);
};

export default LicensePlans;
/*!
 * html2canvas 1.0.0-rc.7 <https://html2canvas.hertzen.com>
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```



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```

*
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    creation from JavaScript
    * Version 1.5.3 Built on 2018-12-27T14:11:42.696Z
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import React from "react";
import { Box } from "mds";

export default function Copyright() {
  return (
    <Box className={"muted"} sx={{ textAlign: "center" }}>
      {"Copyright "}
      <a href="https://min.io/?ref=con">MinIO</a> {new Date().getFullYear()}
    </Box>
  );
}

```

```
{ " : " }  
</Box>  
);  
}
```

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Version 3, 19 November 2007

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A

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package models

```

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import (
    "context"

    "github.com/go-openapi/strfmt"
    "github.com/go-openapi/swag"
)

//
// License license
//
// swagger:model license
type License struct {

    // account id
    AccountID int64 `json:"account_id,omitempty"`

    // email
    Email string `json:"email,omitempty"`

    // expires at
    ExpiresAt string `json:"expires_at,omitempty"`

    // organization
    Organization string `json:"organization,omitempty"`

    // plan
    Plan string `json:"plan,omitempty"`

    // storage capacity
    StorageCapacity int64 `json:"storage_capacity,omitempty"`
}

// Validate validates this license
func (m *License) Validate(formats strfmt.Registry) error {
    return nil
}

// ContextValidate validates this license based on context it is used
func (m *License) ContextValidate(ctx context.Context, formats strfmt.Registry) error {
    return nil
}

// MarshalBinary interface implementation
func (m *License) MarshalBinary() ([]byte, error) {

```

```

if m == nil {
    return nil, nil
}
return swag.WriteJSON(m)
}

// UnmarshalBinary interface implementation
func (m *License) UnmarshalBinary(b
[]byte) error {
    var res License
    if err := swag.ReadJSON(b, &res); err != nil {
        return err
    }
    *m = res
    return nil
}

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import React, { Fragment, useCallback, useEffect, useState } from "react";
import { PageLayout, ProgressBar, Grid } from "mds";
import { SubnetInfo } from "../types";
import api from "../../common/api";
import LicensePlans from "../LicensePlans";
import
    withSuspense from "../Common/Components/withSuspense";
import { getLicenseConsent } from "../utils";
import PageHeaderWrapper from "../Common/PageHeaderWrapper/PageHeaderWrapper";
import { setHelpName } from "../../systemSlice";
import { useAppDispatch } from "../../store";

const LicenseConsentModal = withSuspense(
    React.lazy(() => import("../LicenseConsentModal")),
);

```

```

const License = () => {
  const [activateProductModal, setActivateProductModal] =
    useState<boolean>(false);

  const [licenseInfo, setLicenseInfo] = useState<SubnetInfo>();
  const [currentPlanID, setCurrentPlanID] = useState<number>(0);
  const [loadingLicenseInfo, setLoadingLicenseInfo] = useState<boolean>(false);
  const [initialLicenseLoading, setInitialLicenseLoading] =
    useState<boolean>(true);
  useState<boolean>(false);
  const [clusterRegistered, setClusterRegistered] = useState<boolean>(false);

  const [isLicenseConsentOpen, setIsLicenseConsentOpen] =
    useState<boolean>(false);

  const closeModalAndFetchLicenseInfo
  = () => {
    setActivateProductModal(false);
    fetchLicenseInfo();
  };

  const dispatch = useAppDispatch();
  useEffect(() => {
    dispatch(setHelpName("license"));
    // eslint-disable-next-line react-hooks/exhaustive-deps
  }, []);

  const isRegistered = licenseInfo && clusterRegistered;

  const isAgplConsentDone = getLicenseConsent();

  useEffect(() => {
    const shouldConsent =
      !isRegistered && !isAgplConsentDone && !initialLicenseLoading;

    if (shouldConsent && !loadingLicenseInfo) {
      setIsLicenseConsentOpen(true);
    }
  }, [
    isRegistered,
    isAgplConsentDone,
    initialLicenseLoading,
    loadingLicenseInfo,
  ]);

  const fetchLicenseInfo = useCallback(() => {
    if (loadingLicenseInfo) {
      return;
    }
  }, [loadingLicenseInfo]);

```

```

    }
    setLoadingLicenseInfo(true);
    api
      .invoke("GET", `/api/v1/subnet/info`)
      .then((res: SubnetInfo) => {
        if (res) {
          if (res.plan === "STANDARD") {
            setCurrentPlanID(1);
          } else if (
            ["ENTERPRISE", "ENTERPRISE-LITE", "ENTERPRISE-PLUS"].includes(
              res.plan,
            )
          ) {
            setCurrentPlanID(2);
          } else {
            setCurrentPlanID(1);
          }
          setLicenseInfo(res);
        }
        setClusterRegistered(true);
        setLoadingLicenseInfo(false);
      })
      .catch(() => {
        setClusterRegistered(false);
        setLoadingLicenseInfo(false);
      });
    }, [loadingLicenseInfo]);

    useEffect(() => {
      if (initialLicenseLoading) {
        fetchLicenseInfo();
        setInitialLicenseLoading(false);
      }
    }, [fetchLicenseInfo, initialLicenseLoading, setInitialLicenseLoading]);

    if (loadingLicenseInfo) {
      return (
        <Grid item xs={12}>
          <ProgressBar />
        </Grid>
      );
    }

    return (
      <Fragment>
        <PageHeaderWrapper label="MinIO License and Support Plan" />

        <PageLayout>

```

```

<LicensePlans
  activateProductModal={activateProductModal}
  closeModalAndFetchLicenseInfo={closeModalAndFetchLicenseInfo}
  licenseInfo={licenseInfo}
  currentPlanID={currentPlanID}
  setActivateProductModal={setActivateProductModal}
/>

<LicenseConsentModal
  isOpen={isLicenseConsentOpen}
  onClose={() => {
    setIsLicenseConsentOpen(false);
  }}
/>
</PageLayout>
</Fragment>
);
};

```

export default License;

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```
import * as React from "react";
import { SVGProps } from "react";
```

```
const CheckIcon = (props: SVGProps<SVGSVGElement>) => (
  <svg
    xmlns="http://www.w3.org/2000/svg"
    viewBox="0 0 24 24"
    className={`min-icon`}
    fill={`currentcolor`}
    {...props}
  >
    <polygon points="8.5 16.5 21.5 3.6 23.4 5.5 8.5 20.4 .6 12.5 2.5 10.5 8.5 16.5" />
  </svg>
);
```

```
export default CheckIcon;
```

```
/**
```

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```



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```
import React from "react";
```

```
import { ApplicationLogo } from "mds";
```

```
interface LicensePlanOption {
```

```
  planId: string;
```

```
  planName: string;
```

```
  planType: "commercial" | "open-source";
```

```
  planIcon: React.ReactNode;
```

```
  planDescription: React.ReactNode;
```

```
}
```

```
interface
```

```
  FeatureElementObject {
```

```
    [name: string]: FeatureItem;
```

```
}
```

```
export interface FeatureItem {
```

```
  content: React.ReactNode;
```

```
  isCheck?: boolean;
```

```
}
```

```
interface PlansFeatures {
```

```
  featureLabel: string;
```

```
  featurePlans: FeatureElementObject;
```

```
}
```

```

export const FEATURE_ITEMS: PlansFeatures[] = [
  {
    featureLabel: "",
    featurePlans: {
      eosPlus: {
        content: "Commercial License",
      },
    },
  },
  {
    featureLabel: "",
    featurePlans: {
      eosPlus: {
        content: "Enterprise Stable Release",
      },
    },
  },
  {
    featureLabel: "Additional Features",
    featurePlans: {
      eosPlus: {
        content:
          "Global Console, Observability, Cache, Data Firewall, Key Management Server Catalog",
      },
    },
  },
  {
    featureLabel: "Long Term Release Support",
    featurePlans: {
      eosPlus: {
        content: "5 years LTS",
      },
    },
  },
  {
    featureLabel: "Support SLA",
    featurePlans: {
      eosPlus: {
        content: "Less than 4 Hours",
      },
    },
  },
  {
    featureLabel: "Panic button",
    featurePlans: {
      eosPlus: {
        content: "Unlimited Panic Buttons Per Year",
      },
    },
  },

```

```

    },
  },
},
{
  featureLabel:
    "Call Home Diagnostics, Health Check, Performance Benchmark, Security and Critical Vulnerabilities
Notifications",
  featurePlans: {
    eosPlus: {
      content: "",
      isCheck: true,
    },
  },
},
},
{
  featureLabel: "Indemnification",
  featurePlans: {
    eosPlus: {
      content: "",
      isCheck: true,
    },
  },
},
},
{
  featureLabel: "Annual Review of Architecture, Performance and Security",
  featurePlans: {
    eosPlus: {
      content: "",
      isCheck: true,
    },
  },
},
},
];

```

```

export const LICENSE_PLANS_INFORMATION: LicensePlanOption[] = [
  {
    planId: "eosPlus",
    planName: "Enterprise",
    planType: "commercial",
    planIcon: (
      <ApplicationLogo applicationName={"minio"} subVariant={"enterpriseos"} />
    ),
    planDescription: (
      <span>
        Designed for customers where a commercial license and the
        strictest,engineer-backed SLA are required. It offers additional
        features and operational capabilities, more interaction options and more
        enterprise deliverables.
      </span>
    )
  }
];

```

```

    </span>
  ),
},
];

const LICENSE_CONSENT_STORE_KEY = "agpl_minio_license_consent";
export const setLicenseConsent = () => {
  localStorage.setItem(LICENSE_CONSENT_STORE_KEY, "true");
};

export const getLicenseConsent = () => {
  return localStorage.getItem(LICENSE_CONSENT_STORE_KEY) === "true";
};
/*!
 * Determine if an object is a Buffer
 *
 * @author Feross Aboukhadijeh <https://feross.org>
 * @license MIT
 */

/*!
 * cookie
 * Copyright(c) 2012-2014 Roman Shtylman
 * Copyright(c) 2015 Douglas Christopher Wilson
 * MIT Licensed
 */

/*! decimal.js-light v2.5.1 https://github.com/MikeMcl/decimal.js-light/LICENCE */

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```

```
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```

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*
* @license MIT
*/

/** @license React v16.13.1
* react-is.production.min.js
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const LicenseLink = () => {
  return (
    <a className="link-text" href={`https://min.io/compliance?ref=con`} >
      GNU AGPL v3
    </a>
  );
};

export default LicenseLink;
```

# 1.488 github.com/minio/dperf 0.6.3

## 1.488.1 Available under license :

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### A

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e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

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A

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# 1.490 github.com/minio/console 1.7.6

## 1.490.1 Available under license :

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```

```
import React, { Fragment } from "react";
import styled from "styled-components";
import get from "lodash/get";

const LinkElement = styled.a(({ theme }) => ({
  color: get(theme, "signalColors.info", "#2781B0"),
  fontWeight: 600,
}));

const makeLink
= (text: string, link: string) => {
  return (
```

```

<LinkElement href={link} target={"_blank"}>
  {text}
</LinkElement>
);
};

const LicenseFAQ = () => {
  return (
    <Fragment>
      <h2>What is the GNU AGPL v3?</h2>
      <p>
        The GNU AGPL v3 is short for the "GNU Affero General Public License v3".
        It is a{ " "}
        {makeLink(
          "FOSS",
          "https://en.wikipedia.org/wiki/Free_and_open-source_software",
        )}{ " "}
        license certified by the{ " "}
        {makeLink("Free Software Foundation", "https://www.fsf.org/")} and the
        Open Source Initiative. You can get a copy of the GNU AGPL v3 license
        with MinIO source code or at{ " "}
        {makeLink(
          "https://www.gnu.org/licenses/agpl-3.0.en.html",
          "https://min.io/compliance?ref=con",
        )}
        .
      </p>
      <h2>What does it mean for me to comply with the GNU AGPL v3?</h2>
      <p>
        When you host or distribute MinIO over a network,
        the AGPL v3 applies to
        you. Any distribution or copying of MinIO software modified or not has
        to comply with the obligations specified in the AGPL v3 license. You
        must include the source code, full license text and the original
        copyright notice along with the object code.
      </p>
      <p>
        We recommend the{ " "}
        {makeLink(
          "Free Software Foundations interpretation",
          "https://www.gnu.org/licenses/agpl-3.0.en.html",
        )}{ " "}
        of the GNU AGPL v3 license.
      </p>
      <h2>Making combined or derivative works of MinIO</h2>
      <p>
        Creating combined or derivative works of MinIO requires all such works

```

to be released under the same license.

</p>

<p>

If MinIO source code is included in the same executable file, they are definitely combined in one program. If modules are designed to run linked together in a shared address space, that almost surely means combining them into one program.

</p>

<p>

By contrast, pipes, sockets, RESTful APIs, and command-line arguments are communication mechanisms normally used between two separate programs. So when they are used for communication, the modules normally are separate programs. But if the semantics of the communication are intimate enough, exchanging complex internal data structures, that too could be a basis to consider the two parts as combined into a larger program.

</p>

<p>

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{makeLink(  
"GPL FAQ",  
"https://www.gnu.org/licenses/gpl-faq.en.html#MereAggregation",  
)}

.

</p>

<p></p>

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<p>

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your own attorney  
for legal advice. Purchasing a commercial license from MinIO removes the  
GNU AGPL v3 obligations from MinIO software.

</p>

</Fragment>

);

};

export default LicenseFAQ;

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```

```
import React from "react";  
import ModalWrapper from "../Common/ModalWrapper/ModalWrapper";
```

```
import { AGPLV3DarkLogo, Box, Button } from "mds";  
import { setLicenseConsent } from "../utils";  
import LicenseLink from "../LicenseLink";  
import LicenseFAQ from  
  "../LicenseFAQ";
```

```
const LicenseConsentModal = ({  
  isOpen,  
  onClose,  
}): {  
  onClose: () => void;  
  isOpen: boolean;  
}) => {  
  const recordAgplConsent = () => {  
    setLicenseConsent(); //to Local storage.  
    onClose();  
  };  
};
```

```
return (  
  <ModalWrapper  
    modalOpen={isOpen}  
    title="License"  
    onClose={() => {  
      onClose();  
    }}  
  >  
    <Box  
      sx={{  
        display: "flex",  
        flexFlow: "column",  
        "& .link-text": {  
          color: "#2781B0",  
          fontWeight: 600,  
        },  
      }}  
    >  
      <Box
```



```

sx={ {
  display: "flex",
  alignItems: "center",
  marginBottom: "40px",
  justifyContent: "center",
  "& .min-icon": {
    fill: "blue",
    width: "188px",
    height: "62px",
  },
}}
>
<AGPLV3DarkLogo />
</Box>
<Box
  sx={ {
    marginBottom: "27px",
  }}
>
  By using this software, you acknowledge that MinIO software is
  licensed under the <LicenseLink />, for which, the full text can be
  found here:{ " " }
  <a
    href={`https://www.gnu.org/licenses/agpl-3.0.html`}
    rel="noopener"
    className={ "link-text" }
  >
    https://www.gnu.org/licenses/agpl-3.0.html.
  </a>
</Box>
<Box
  sx={ {
    paddingBottom: "23px",
  }}
>
  Please review the terms carefully and ensure you are in compliance
  with the obligations of the license. If you are not able to satisfy
  the license obligations, we offer a commercial license which is
  available here:{ " " }
  <a
    href={`https://min.io/signup?ref=con`}
    rel="noopener"
    className={ "link-text" }
  >
    https://min.io/signup.
  </a>
</Box>

```

```

<LicenseFAQ />

<Box
  sx={{
    marginTop: "19px",
    display: "flex",
    alignItems: "center",
    justifyContent: "center",
  }}
>
  <Button
    id={ "confirm" }
    type="button"
    variant="callAction"
    onClick={recordAgplConsent}
    label={ "Acknowledge" }
  />
</Box>
</Box>
</ModalWrapper>
);
};

export default LicenseConsentModal;
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export interface SubnetInfo {
  account_id: number;
  email: string;
  expires_at: string;
  plan: string;
  storage_capacity: number;
  organization: string;
}

```

```

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import React, { Fragment } from "react";
import { Box, Button } from "mds";
import { SubnetInfo } from "./types";
import { FEATURE_ITEMS, FeatureItem, LICENSE_PLANS_INFORMATION } from "./utils";
import styled from "styled-components";
import
  get from "lodash/get";
import CheckIcon from "./CheckIcon";

interface IRegisterStatus {
  activateProductModal: any;
  closeModalAndFetchLicenseInfo: any;
  licenseInfo: SubnetInfo | undefined;
  currentPlanID: number;
  setActivateProductModal: any;
}

const LicensesInformation = styled.div(({ theme }) => ({
  display: "grid",
  gridTemplateColumns: "repeat(1, minmax(350px, 400px));",
  alignItems: "center",
  justifyContent: "center",
  marginTop: 30,
  marginLeft: 30,
  "> div": {
    borderBottom: `${get(theme, "borderColor", "#EAEAEA")} 1px solid`,
    padding: "13px 20px",
    justifyContent: "center",
    "&.openSource": {
      borderRight: `#002562 2px solid`,
      borderLeft: `#002562 2px solid`,
      position: "relative",

```

```

"&.first:before": {
  content: "" "",
  width: "calc(100% + 4px)",
  height: 16,
  display: "block",
  backgroundColor: "#001F55",
  position: "absolute",
  top: -14,
  left: -2,
  border:
`#002562 2px solid`,
  borderBottom: 0,
  borderTopLeftRadius: 12,
  borderTopRightRadius: 12,
},
"&.last": {
  paddingBottom: 30,
  "&:after": {
    content: "" "",
    width: "calc(100% + 4px)",
    height: 16,
    display: "block",
    position: "absolute",
    bottom: -14,
    left: -2,
    border: `#002562 2px solid`,
    borderTop: 0,
    borderBottomLeftRadius: 12,
    borderBottomRightRadius: 12,
  },
},
},
"&.feature-information": {
  textAlign: "center",
},
"&.feature-label": {
  paddingLeft: 5,
},
"&.noBorderBottom": {
  borderBottom: 0,
},
},
"& .planName": {
  fontWeight: 600,
  fontSize: 35,
  marginBottom: 20,
  textAlign: "center",
  marginTop: 10,

```

```

},
"& .planIcon": {
  height: 45,
  display: "flex",
  alignItems: "flex-start",
  justifyContent: "center",
  "& svg": {
    height: 35,
  },
  "&.commercial": {
    "& svg": {
      height: 20,
    },
  },
},
"& .planDescription": {
  display: "flex",
  justifyContent: "center",
},
));

```

```

const LicensePlans = ({ licenseInfo }: IRegisterStatus) => {
  let currentPlan = !licenseInfo
    ? "community"
    : licenseInfo?.plan?.toLowerCase();

  const getButton = (link: string, btnText: string, variant: any) => {
    let linkToNav =
      currentPlan !== "community" ? "https://subnet.min.io" : link;
    return (
      <Button
        id={`license-action-${link}`}
        variant={variant}
        sx={{
          marginTop: "12px",
          width: "80%",
          height: "55px",
        }}
        onClick={(e) => {
          e.preventDefault();

          window.open(`${linkToNav}?ref=con`, "_blank");
        }}
        label={btnText}
      />
    );
  };
};

```

```

const renderFeatureInformation = (content: FeatureItem | null) => {
  if (content) {
    return (
      <Fragment>
        {content.content}
        {content.isCheck && <CheckIcon style={{ width: 16, height: 16 }} />}
      </Fragment>
    );
  }
  return <Fragment />;
};

return (
  <LicensesInformation>
    {[null, ...LICENSE_PLANS_INFORMATION].map((element, index) => {
      return (
        <Box
          key={` ${element?.planType}-${index}`}
          className={` ${index === 1 ? "openSource first" : ""}`}
        >
          {element !== null && (
            <Box>
              <Box className={"planName"}>{element.planName}</Box>
              <Box
                className={`planIcon ${
                  element.planType === "commercial" ? "commercial" : ""
                }`}
              >
                {element?.planIcon}
              </Box>
              <Box className={"planDescription"}>
                {element?.planDescription}
              </Box>
            </Box>
          )}
        </Box>
      );
    })}
    {FEATURE_ITEMS.map((feature,
index) => {
      return (
        <Box
          key={` ${feature.featureLabel}-${index}`}
          className={`feature-information`}
          sx={{
            display: "flex",
            borderLeft: `#002562 2px solid`,
            borderRight: `#002562 2px solid`,

```

```

        flexDirection: "column",
        gap: "10px",
        alignItems: "center",
    }}
    >
    <Box className={`feature-label`} >{feature.featureLabel}</Box>
    {renderFeatureInformation(feature.featurePlans.eosPlus || null)}
    </Box>
    );
    )})
    {[...LICENSE_PLANS_INFORMATION].map((element) => {
    return element && currentPlan === "community" ? (
    <div
    key="plan-subscribe-btn"
    style={{
    borderLeft: `#002562 2px solid`,
    display: "flex",
    alignItems: "center",
    justifyContent: "center",
    borderRight: `#002562 2px solid`,
    borderBottom: `#002562 2px solid`,
    borderBottomLeftRadius: "10px",
    borderBottomRightRadius: "10px",
    }}
    >
    {getButton(
    element.planType === "commercial"
    ? `https://min.io/signup`
    : `https://slack.min.io`,
    element.planType === "commercial" ? "Subscribe" : "Join Slack",
    element.planType === "commercial" ? "callAction" : "regular",
    )}
    </div>
    ) : (
    <div
    key="plan-subscribe-btn-1"
    style={{
    borderLeft: `#002562 2px solid`,
    display: "flex",
    alignItems: "center",
    justifyContent: "center",
    borderRight: `#002562 2px solid`,
    borderBottom: `#002562 2px solid`,
    borderBottomLeftRadius: "10px",
    borderBottomRightRadius: "10px",
    }}
    >
    {getButton(

```

```

        `https://subnet.min.io`,
        "Log in to SUBNET",
        "callAction",
    )}
</div>

);
}}
</LicensesInformation>

);
};

export default LicensePlans;
/*!
 * html2canvas 1.0.0-rc.7 <https://html2canvas.hertzen.com>
 * Copyright (c) 2020 Niklas von Hertzen <https://hertzen.com>
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import React from "react";
import { Box } from "mds";

export default function Copyright() {
  return (
    <Box className={"muted"} sx={{ { textAlign: "center" } }}>

```

```
{ "Copyright " }
<a href="https://min.io/?ref=con">MinIO</a> { new Date().getFullYear() }
{ "." }
</Box>
);
}
```

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Version 3, 19 November 2007

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#### A

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//

package models

// This file was generated by the swagger tool.

// Editing this file might prove futile when you re-run the swagger generate command

import (

"context"

"github.com/go-openapi/strfmt"

"github.com/go-openapi/swag"

)

//

License license

//

// swagger:model license

type License struct {

// account id

AccountID int64 `json:"account\_id,omitempty"`

// email

Email string `json:"email,omitempty"`

// expires at

ExpiresAt string `json:"expires\_at,omitempty"`

// organization

Organization string `json:"organization,omitempty"`

// plan

Plan string `json:"plan,omitempty"`

// storage capacity

StorageCapacity int64 `json:"storage\_capacity,omitempty"`

}

// Validate validates this license

func (m \*License) Validate(formats strfmt.Registry) error {

return nil

}

// ContextValidate validates this license based on context it is used

func (m \*License) ContextValidate(ctx context.Context, formats strfmt.Registry) error {

return nil

}

```

// MarshalBinary interface implementation
func (m *License) MarshalBinary() ([]byte, error) {
    if m == nil {
        return nil, nil
    }
    return swag.WriteJSON(m)
}

// UnmarshalBinary interface implementation
func (m *License) UnmarshalBinary(b
[]byte) error {
    var res License
    if err := swag.ReadJSON(b, &res); err != nil {
        return err
    }
    *m = res
    return nil
}

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import React, { Fragment, useCallback, useEffect, useState } from "react";
import { PageLayout, ProgressBar, Grid } from "mds";
import { SubnetInfo } from "../types";
import api from "../../common/api";
import LicensePlans from "../LicensePlans";
import
    withSuspense from "../Common/Components/withSuspense";
import { getLicenseConsent } from "../utils";
import PageHeaderWrapper from "../Common/PageHeaderWrapper/PageHeaderWrapper";
import { setHelpName } from "../../systemSlice";
import { useAppDispatch } from "../../store";

const LicenseConsentModal = withSuspense(
    React.lazy(() => import("../LicenseConsentModal")),

```

```

);

const License = () => {
  const [activateProductModal, setActivateProductModal] =
    useState<boolean>(false);

  const [licenseInfo, setLicenseInfo] = useState<SubnetInfo>();
  const [currentPlanID, setCurrentPlanID] = useState<number>(0);
  const [loadingLicenseInfo, setLoadingLicenseInfo] = useState<boolean>(false);
  const [initialLicenseLoading, setInitialLicenseLoading] =
    useState<boolean>(true);
  useState<boolean>(false);
  const [clusterRegistered, setClusterRegistered] = useState<boolean>(false);

  const [isLicenseConsentOpen, setIsLicenseConsentOpen] =
    useState<boolean>(false);

  const closeModalAndFetchLicenseInfo
    = () => {
      setActivateProductModal(false);
      fetchLicenseInfo();
    };

  const dispatch = useAppDispatch();
  useEffect(() => {
    dispatch(setHelpName("license"));
    // eslint-disable-next-line react-hooks/exhaustive-deps
  }, []);

  const isRegistered = licenseInfo && clusterRegistered;

  const isAgplConsentDone = getLicenseConsent();

  useEffect(() => {
    const shouldConsent =
      !isRegistered && !isAgplConsentDone && !initialLicenseLoading;

    if (shouldConsent && !loadingLicenseInfo) {
      setIsLicenseConsentOpen(true);
    }
  }, [
    isRegistered,
    isAgplConsentDone,
    initialLicenseLoading,
    loadingLicenseInfo,
  ]);

  const fetchLicenseInfo = useCallback(() => {

```

```

    if (loadingLicenseInfo) {
        return;
    }
    setLoadingLicenseInfo(true);
    api
        .invoke("GET", `/api/v1/subnet/info`)
        .then((res: SubnetInfo) => {
            if (res) {
                if (res.plan === "STANDARD") {
                    setCurrentPlanID(1);
                } else if (
                    ["ENTERPRISE", "ENTERPRISE-LITE", "ENTERPRISE-PLUS"].includes(
                        res.plan,
                    )
                ) {
                    setCurrentPlanID(2);
                } else {
                    setCurrentPlanID(1);
                }
                setLicenseInfo(res);
            }
            setClusterRegistered(true);
            setLoadingLicenseInfo(false);
        })
        .catch(() => {
            setClusterRegistered(false);
            setLoadingLicenseInfo(false);
        });
    }, [loadingLicenseInfo]);

    useEffect(() => {
        if (initialLicenseLoading) {
            fetchLicenseInfo();
            setInitialLicenseLoading(false);
        }
    }, [fetchLicenseInfo, initialLicenseLoading, setInitialLicenseLoading]);

    if (loadingLicenseInfo) {
        return (
            <Grid item xs={12}>
                <ProgressBar />
            </Grid>
        );
    }

    return (
        <Fragment>
            <PageHeaderWrapper label="MinIO License and Support Plan" />

```

```

<PageLayout>
  <LicensePlans
    activateProductModal={activateProductModal}
    closeModalAndFetchLicenseInfo={closeModalAndFetchLicenseInfo}
    licenseInfo={licenseInfo}
    currentPlanID={currentPlanID}
    setActivateProductModal={setActivateProductModal}
  />

  <LicenseConsentModal
    isOpen={isLicenseConsentOpen}
    onClose={() => {
      setIsLicenseConsentOpen(false);
    }}
  />
</PageLayout>
</Fragment>
);
};

```

export default License;

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```
import * as React from "react";
```

```
import { SVGProps } from "react";
```

```
const CheckIcon = (props: SVGProps<SVGSVGElement>) => (
```

```
  <svg
```

```
    xmlns="http://www.w3.org/2000/svg"
```

```
    viewBox="0 0 24 24"
```

```
    className={`min-icon` }
```

```
    fill={"currentcolor" }
```

```
    {...props}
```

```
  >
```

```
    <polygon points="8.5 16.5 21.5 3.6 23.4 5.5 8.5 20.4 .6 12.5 2.5 10.5 8.5 16.5" />
```

```
  </svg>
```

```
);
```

```
export default CheckIcon;
```

```
/**
```

```
 * @licstart The following is the entire license notice for the
```

```
 * JavaScript code in this page
```

```
 *
```

```
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```

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 *
```

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 *
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 *
```



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```
import React from "react";
```

```
import { ApplicationLogo } from "mds";
```

```
interface LicensePlanOption {
```

```
  planId: string;
```

```
  planName: string;
```

```
  planType: "commercial" | "open-source";
```

```
  planIcon: React.ReactNode;
```

```
  planDescription: React.ReactNode;
```

```
}
```

```
interface
```

```
  FeatureElementObject {
```

```
    [name: string]: FeatureItem;
```

```
}
```

```
export interface FeatureItem {
```

```
  content: React.ReactNode;
```

```
  isCheck?: boolean;
```

```
}
```

```
interface PlansFeatures {
```

```
  featureLabel: string;
```

```

featurePlans: FeatureElementObject;
}

export const FEATURE_ITEMS: PlansFeatures[] = [
  {
    featureLabel: "",
    featurePlans: {
      eosPlus: {
        content: "Commercial License",
      },
    },
  },
  {
    featureLabel: "",
    featurePlans: {
      eosPlus: {
        content: "Enterprise Stable Release",
      },
    },
  },
  {
    featureLabel: "Additional Features",
    featurePlans: {
      eosPlus: {
        content:
          "Global Console, Observability, Cache, Data Firewall, Key Management Server Catalog",
      },
    },
  },
  {
    featureLabel: "Long Term Release Support",
    featurePlans: {
      eosPlus: {
        content: "5 years LTS",
      },
    },
  },
  {
    featureLabel: "Support SLA",
    featurePlans: {
      eosPlus: {
        content: "Less than 4 Hours",
      },
    },
  },
  {
    featureLabel: "Panic button",
    featurePlans: {

```

```

    eosPlus: {
      content: "Unlimited Panic Buttons Per Year",
    },
  },
},
{
  featureLabel:
    "Call Home Diagnostics, Health Check, Performance Benchmark, Security and Critical Vulnerabilities
Notifications",
  featurePlans: {
    eosPlus: {
      content: "",
      isCheck: true,
    },
  },
},
{
  featureLabel: "Indemnification",
  featurePlans: {
    eosPlus: {
      content: "",
      isCheck: true,
    },
  },
},
{
  featureLabel: "Annual Review of Architecture, Performance and Security",
  featurePlans: {
    eosPlus: {
      content: "",
      isCheck: true,
    },
  },
},
];

```

```

export const LICENSE_PLANS_INFORMATION: LicensePlanOption[] = [
  {
    planId: "eosPlus",
    planName: "Enterprise",
    planType: "commercial",
    planIcon: (
      <ApplicationLogo applicationName={"minio"} subVariant={"enterpriseos"} />
    ),
    planDescription: (
      <span>
        Designed for customers where a commercial license and the
        strictest,engineer-backed SLA are required. It offers additional

```

features and operational capabilities, more interaction options and more enterprise deliverables.

```
</span>
),
},
];

const LICENSE_CONSENT_STORE_KEY = "agpl_minio_license_consent";
export const setLicenseConsent = () => {
  localStorage.setItem(LICENSE_CONSENT_STORE_KEY, "true");
};

export const getLicenseConsent = () => {
  return localStorage.getItem(LICENSE_CONSENT_STORE_KEY) === "true";
};
/*!
 * Determine if an object is a Buffer
 *
 * @author Feross Aboukhadijeh <https://feross.org>
 * @license MIT
 */

/*!
 * cookie
 * Copyright(c) 2012-2014 Roman Shtylman
 * Copyright(c) 2015 Douglas Christopher Wilson
 * MIT Licensed
 */

/*! decimal.js-light v2.5.1 https://github.com/MikeMcl/decimal.js-light/LICENCE */

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\*

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*/

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```

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  return (
    <a className="link-text" href={`https://min.io/compliance?ref=con`} >
      GNU AGPL v3
    </a>
  );
};

export default LicenseLink;

```

# 1.491 swag 0.23.1

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# 1.501 golang 1.24.2



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package copyright

```
import (
```

"bytes"

"internal/testenv"

"i0"

"io/fs"

"OS"

"path/filepath"

"testing"

)

```
var copyright = []byte("Copyright")
```

```
var permitted = [][]byte{
```

```
[]byte("// Code generated by "),
```

```
[]byte("// Code generated from "),
```

```
[]byte("// Created by cgo -cdefs"),
```

```
[]byte("// DO NOT EDIT\n// generated by:").
```

```
[]byte("// Empty assembly file"),
```

```
[]byte("// Generated using cgo"),
```

```

[]byte("// Original source:\n\\http://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5

```

```
[]byte("// created by cgo -cdefs"),
```

```
[]byte("// go run mkasm.go"),
```

```
byte("// mkerrors"),
```

```
[]byte("// mksys"),
```

```
[]byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
```

}

```
func TestCopyright(t *testing.T) {
```

```
buf := make([]byte, 2048)
```

```
filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
```

```

d fs.DirEntry, err error) error {

```

```
if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
```

```
return filepath.SkipDir
```

}

```
switch filepath.Ext(d.Name()) {
```

```

default:
    return nil
case ".s", ".go":
    // check
}

f, err := os.Open(path)
if err != nil {
    t.Error(err)
    return nil
}
defer f.Close()
n, err := f.Read(buf)
if err != nil && err != io.EOF {
    t.Error(err)
    return nil
}
b := buf[:n]
if bytes.Contains(b, copyright) {
    return nil
}
for _, ok := range permitted {
    if bytes.HasPrefix(b, ok) {
        return nil
    }
}
t.Errorf("%s: missing copyright notice", path)
return nil
})
}

```

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## 1.503 stdlib go1.24.2

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```

```
package copyright
```

```
import (  
    "bytes"  
    "internal/testenv"  
    "io"  
    "io/fs"  
    "os"  
    "path/filepath"  
    "testing"  
)
```

```
var copyright = []byte("Copyright")
```

```
var permitted = []byte{  
    []byte("// Code generated by "),  
    []byte("// Code generated from "),  
    []byte("// Created by cgo -cdefs"),  
    []byte("// DO NOT EDIT\n// generated by:"),  
    []byte("// Empty assembly file"),  
    []byte("// Generated using cgo"),  
    []byte("// Original source:\n//\nhttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5  
    []byte("// created by cgo -cdefs"),  
    []byte("// go run mkasm.go"),  
}
```

```

[]byte("// mkerrors"),
[]byte("// mksys"),
[]byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

```

```

func TestCopyright(t *testing.T) {
    buf := make([]byte, 2048)
    filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
    d fs.DirEntry, err error) error {
        if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
            return filepath.SkipDir
        }
        switch filepath.Ext(d.Name()) {
        default:
            return nil
        case ".s", ".go":
            // check
        }
    }
}

```

```

f, err := os.Open(path)
if err != nil {
    t.Error(err)
    return nil
}
defer f.Close()
n, err := f.Read(buf)
if err != nil && err != io.EOF {
    t.Error(err)
    return nil
}
b := buf[:n]
if bytes.Contains(b, copyright) {
    return nil
}
for _, ok := range permitted {
    if bytes.HasPrefix(b, ok) {
        return nil
    }
}
t.Errorf("%s: missing copyright notice", path)
return nil
})
}

```

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```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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\* Regular  
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1987 James A. Woods ames!jaw

1993 Christopher Seiwald seiwald@vix.com

2000, 2002 Christopher Seiwald <seiwald@perforce.com>

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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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\* Regular  
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1993 Christopher Seiwald seiwald@vix.com  
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Jean-loup Gailly	Mark Adler
jloup@gzip.org	madler@alumni.caltech.edu

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Version 3, 29 June 2007

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-\*- org -\*-

#+TITLE: List of code with permissive licenses as used by GnuPG.

#+STARTUP: showall

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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\* Regular  
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu  
1987 James A. Woods ames!jaw  
1993 Christopher Seiwald seiwald@vix.com  
2000, 2002 Christopher Seiwald <seiwald@perforce.com>  
2010 Steve Bennett <steveb@workware.net.au>  
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regexp/utf8.[ch] (see regexp/LICENSE):

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Version 3, 29 June 2007

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```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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\* Regular

expression support

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu

1987 James A. Woods ames!jaw

1993 Christopher Seiwald seiwald@vix.com

2000, 2002 Christopher Seiwald <seiwald@perforce.com>

2010 Steve Bennett <steveb@workware.net.au>

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#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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\* Regular  
expression support

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Dave Cheney <dave@cheney.net>  
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# 1.526 google-golang-org-api 0.224.0

## 1.526.1 Available under license :

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#
# Please keep the list sorted.
#
Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@google.com>
```

Francesc Campoy <campoy@golang.org>  
Garrick Evans <garrick@google.com>  
Glenn Lewis <gmlewis@google.com>  
Ivan Krasin <krasin@golang.org>  
Jason Hall <jasonhall@google.com>  
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Kostik Shtoyk <kostik@google.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Matthew Dolan <dolan@lightstep.com>  
Matthew Whisenhunt <matt.whisenhunt@gmail.com>  
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# 1.527 [github.com/azure/azure-sdk-for-go/sdk/azidentity](https://github.com/azure/azure-sdk-for-go/sdk/azidentity) 1.8.2

## 1.527.1 Available under license :

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```
{
  "main": "dist/src/index.js",
  "dependencies": {
    "@azure-tools/typespec-go": "0.3.6"
  },
  "devDependencies": {
    "@azure-tools/typespec-autorest": "0.50.0",
    "@azure-tools/typespec-azure-core": "0.50.0",
    "@azure-tools/typespec-azure-resource-manager": "0.50.0",
    "@azure-tools/typespec-azure-rulesets": "0.50.0",
    "@azure-tools/typespec-client-generator-core": "0.50.2",
    "@typespec/compiler": "0.64.0",
    "@typespec/http": "0.64.0",
```

```
"@typespec/openapi": "0.64.0",
"@typespec/rest": "0.64.0",
"@typespec/versioning": "0.64.0",
"@azure-tools/typespec-liftr-base": "0.6.0"
}
}
```

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```
//go:build go1.18
```

```
// +build go1.18
```

```
// Copyright (c) Microsoft Corporation. All rights reserved.
```

```
// Licensed under the MIT License. See License.txt in the project root for license information.
```

```
// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
package fake
```

```
import (
```

```
"context"
```

```
"errors"
```

```
"fmt"
```

```
azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
```

```
"github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
```

```
"github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
```

```
"github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
```

```
"github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
```

```
"net/http"
```

```

"net/url"
"regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
    // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
    // HTTP status codes to indicate success:
    http.StatusOK
    BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

    // BeginDelete is the fake for method LicensesClient.BeginDelete
    // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
    BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

    // Get is the fake for method LicensesClient.Get
    // HTTP status codes to indicate success: http.StatusOK
    Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
errResp azfake.ErrorResponder)

    // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
    // HTTP status codes to indicate success: http.StatusOK
    NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

    // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
    // HTTP status codes to indicate success: http.StatusOK
    NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

    // BeginUpdate is the fake for method LicensesClient.BeginUpdate
    // HTTP status codes to indicate success: http.StatusOK
    BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

    // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
    // HTTP status codes to indicate success: http.StatusOK
    BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp

```

```

azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
// implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
// via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
{
    return &LicensesServerTransport{
        srv:                srv,
        beginCreateOrUpdate:
        newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
        beginDelete:        newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
        newListByResourceGroupPager:
        newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
        newListBySubscriptionPager:
        newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
        beginUpdate:        newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
        beginValidateLicense:
        newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
    }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
// instead.
type LicensesServerTransport struct {
    srv                *LicensesServer
    beginCreateOrUpdate
    *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
    beginDelete        *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
    newListByResourceGroupPager
    *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
    newListBySubscriptionPager
    *tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
    beginUpdate        *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
    beginValidateLicense
    *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
    rawMethod := req.Context().Value(runtime.CtxAPINameKey{ })
    method,

```

```

ok := rawMethod.(string)
if !ok {
    return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
}

var resp *http.Response
var err error

switch method {
case "LicensesClient.BeginCreateOrUpdate":
    resp, err = l.dispatchBeginCreateOrUpdate(req)
case "LicensesClient.BeginDelete":
    resp, err = l.dispatchBeginDelete(req)
case "LicensesClient.Get":
    resp, err = l.dispatchGet(req)
case "LicensesClient.NewListByResourceGroupPager":
    resp, err = l.dispatchNewListByResourceGroupPager(req)
case "LicensesClient.NewListBySubscriptionPager":
    resp, err = l.dispatchNewListBySubscriptionPager(req)
case "LicensesClient.BeginUpdate":
    resp, err = l.dispatchBeginUpdate(req)
case "LicensesClient.BeginValidateLicense":
    resp, err = l.dispatchBeginValidateLicense(req)
default:
    err = fmt.Errorf("unhandled API %s", method)
}

if err != nil {
    return nil, err
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
    *http.Request) (*http.Response, error) {
    if l.srv.BeginCreateOrUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
    }
    beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
    if beginCreateOrUpdate == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)

```

```

    }
    body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
    if err != nil {
        return nil, err
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
    nil)
    if respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    beginCreateOrUpdate = &respr
    l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
}

resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.beginCreateOrUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginCreateOrUpdate) {
    l.beginCreateOrUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
    if l.srv.BeginDelete
    == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
    }
    beginDelete := l.beginDelete.get(req)
    if beginDelete == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]_a-zA-Z0-

```

```

9~% @ ]+ )/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-
9~% @ ]+ )/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+ )`
    regex := regexp.MustCompile(regexStr)
    matches := regex.FindStringSubmatch(req.URL.EscapedPath())
    if matches == nil || len(matches) < 3 {
        return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
    }
    resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
    if err != nil {
        return nil, err
    }
    licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
    if err != nil {
        return nil, err
    }
    respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
    if
    respErr := server.GetError(errRespr, req); respErr != nil {
        return nil, respErr
    }
    beginDelete = &respr
    l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
    l.beginDelete.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
    l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
    if l.srv.Get == nil {
        return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
    }
    const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_a-zA-Z0-
9~% @ ]+ )/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\[_a-zA-Z0-
9~% @ ]+ )/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\[_a-zA-Z0-9~% @ ]+ )`

```

```

regex
:= regexp.MustCompile(regexStr)
matches := regex.FindStringSubmatch(req.URL.EscapedPath())
if matches == nil || len(matches) < 3 {
    return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
}
resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
if err != nil {
    return nil, err
}
licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
if err != nil {
    return nil, err
}
respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
if respErr := server.GetError(errRespr, req); respErr != nil {
    return nil, respErr
}
respContent := server.GetResponseContent(respr)
if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
}
resp, err := server.MarshalResponseAsJSON(respContent,
server.GetResponse(respr).License, req)
if err != nil {
    return nil, err
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
    if l.srv.NewListByResourceGroupPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
    }
    newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
    if newListByResourceGroupPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-[\]\_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 2 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if

```



```

err != nil {
    return nil, err
}
resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
newListByResourceGroupPager = &resp
l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
    page.NextLink = to.Ptr(createLink())
})
}
resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
if err != nil {
    return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.newListByResourceGroupPager.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListByResourceGroupPager) {
    l.newListByResourceGroupPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
(*http.Response, error) {
    if l.srv.NewListBySubscriptionPager == nil {
        return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
    }
    newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
    if newListBySubscriptionPager == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]a-zA-Z0-
9~% @ ]+)/providers/Microsoft.HybridCompute/licenses`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        resp := l.srv.NewListBySubscriptionPager(nil)
        newListBySubscriptionPager = &resp
        l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
        server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
            page.NextLink = to.Ptr(createLink())
        })
    }
}

```

```

resp,
err := server.PagerResponderNext(newListBySubscriptionPager, req)
if err != nil {
    return nil, err
}
if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.newListBySubscriptionPager.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PagerResponderMore(newListBySubscriptionPager) {
    l.newListBySubscriptionPager.remove(req)
}
return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
    if l.srv.BeginUpdate == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
    }
    beginUpdate := l.beginUpdate.get(req)
    if beginUpdate == nil {
        const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\_a-zA-Z0-9~% @ ]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\\_a-zA-Z0-9~% @ ]+)/providers/Microsoft.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\\_a-zA-Z0-9~% @ ]+)`
        regex
        := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 3 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
        if err != nil {
            return nil, err
        }
        resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
        if err != nil {
            return nil, err
        }
        licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
        if respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginUpdate = &respr
    }
}

```

```

l.beginUpdate.add(req, beginUpdate)
}

resp, err := server.PollerResponderNext(beginUpdate, req)
if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK},
resp.StatusCode) {
    l.beginUpdate.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginUpdate) {
    l.beginUpdate.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
    if l.srv.BeginValidateLicense == nil {
        return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
    }
    beginValidateLicense := l.beginValidateLicense.get(req)
    if beginValidateLicense == nil {
        const regexStr = `^/subscriptions/(?P<subscriptionId>[!#&$-;=?-\\[_]a-zA-Z0-9~%@]+)/providers/Microsoft\\.HybridCompute/validateLicense`
        regex := regexp.MustCompile(regexStr)
        matches := regex.FindStringSubmatch(req.URL.EscapedPath())
        if matches == nil || len(matches) < 1 {
            return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
        }
        body,
        err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
        if err != nil {
            return nil, err
        }
        respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
        if respErr := server.GetError(errRespr, req); respErr != nil {
            return nil, respErr
        }
        beginValidateLicense = &respr
        l.beginValidateLicense.add(req, beginValidateLicense)
    }

    resp, err := server.PollerResponderNext(beginValidateLicense, req)

```

```

if err != nil {
    return nil, err
}

if !contains([]int{http.StatusOK}, resp.StatusCode) {
    l.beginValidateLicense.remove(req)
    return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
}
if !server.PollerResponderMore(beginValidateLicense) {
    l.beginValidateLicense.remove(req)
}

return resp, nil
}
azwebpubsub

```

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aztemplate

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//go:build go1.18

// +build go1.18

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package armhybridcompute

```
import (  
    "context"  
    "errors"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"  
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"  
    "net/http"  
    "net/url"  
    "strings"  
)
```

// LicensesClient contains the methods for the Licenses group.

```

// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
    internal    *arm.Client
    subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
// - subscriptionID - The ID of the target
// subscription.
// - credential - used to authorize requests. Usually a credential from azidentity.
// - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
    cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
    if err != nil {
        return nil, err
    }
    client := &LicensesClient{
        subscriptionID: subscriptionID,
        internal:      cl,
    }
    return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - parameters - Parameters supplied to the Create license operation.
// - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
// for the LicensesClient.BeginCreateOrUpdate
// method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
            Tracer: client.internal.Tracer(),
        })
        return poller, err
    } else {

```

```

    return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]){
    Tracer: client.internal.Tracer(),
})
}
}

// CreateOrUpdate - The operation to create or update a license.
// If the
// operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginCreateOrUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
    return httpResp, nil
}

// createOrUpdateCreateRequest creates
// the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }

```

```

    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
    req, err := runtime.NewRequest(ctx,
        http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }
    return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
error) {
    if options == nil || options.ResumeToken == "" {
        resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
        if err != nil {
            return nil, err
        }
        poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
            &runtime.NewPollerOptions[LicensesClientDeleteResponse]{
                Tracer: client.internal.Tracer(),
            })
        return poller, err
    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
            &runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
                Tracer: client.internal.Tracer(),
            })
    }
}

```

```

}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
    var err error
    const
        operationName = "LicensesClient.BeginDelete"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
    return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
    urlPath :=
        "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if
        client.subscriptionID == "" {
            return nil, errors.New("parameter client.subscriptionID cannot be empty")
        }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if licenseName == "" {
        return nil, errors.New("parameter licenseName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))

```

```

req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// Get - Retrieves information about the view of a license.
//
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName - The name of the license.
// - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
    var err error
    const operationName = "LicensesClient.Get"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
    if err != nil {
        return LicensesClientGetResponse{}, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        {
            return LicensesClientGetResponse{}, err
        }
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return LicensesClientGetResponse{}, err
    }
    resp, err := client.getHandleResponse(httpResp)
    return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens

```

```

es/{licenseName}"
if client.subscriptionID == "" {
    return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
if resourceGroupName == "" {
    return nil, errors.New("parameter resourceGroupName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if
licenseName == "" {
    return nil, errors.New("parameter licenseName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
    result := LicensesClientGetResponse{}
    if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
        return LicensesClientGetResponse{}, err
    }
    return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
// API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
// method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]){
        More: func(page LicensesClientListByResourceGroupResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
    },

```

```

    Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, "LicensesClient.NewListByResourceGroupPager")
    nextLink := ""
    if page != nil {
        nextLink = *page.NextLink
    }
    resp,
err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
}, nil)
    if err != nil {
        return LicensesClientListByResourceGroupResponse{ }, err
    }
    return client.listByResourceGroupHandleResponse(resp)
},
Tracer: client.internal.Tracer(),
))
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
    if
client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.

```



```

func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
    result := LicensesClientListByResourceGroupResponse{ }
    if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
        return LicensesClientListByResourceGroupResponse{ }, err
    }
    return
    result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
// - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
// method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
    return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]){
        More: func(page LicensesClientListBySubscriptionResponse) bool {
            return page.NextLink != nil && len(*page.NextLink) > 0
        },
        Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
            ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, "LicensesClient.NewListBySubscriptionPager")
            nextLink := ""
            if page != nil {
                nextLink = *page.NextLink
            }
            resp,
            err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
                return client.listBySubscriptionCreateRequest(ctx, options)
            }, nil)
            if err != nil {
                return LicensesClientListBySubscriptionResponse{ }, err
            }
            return client.listBySubscriptionHandleResponse(resp)
        },
        Tracer: client.internal.Tracer(),
    })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
    if client.subscriptionID == "" {

```

```

return nil, errors.New("parameter client.subscriptionID cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
req, err := runtime.NewRequest(ctx, http.MethodGet,
runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
result := LicensesClientListBySubscriptionResponse{}
if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
return LicensesClientListBySubscriptionResponse{}, err
}
return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - resourceGroupName - The name of the resource group. The name is case insensitive.
// - licenseName
//   - The name of the license.
// - parameters - Parameters supplied to the Update license operation.
// - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
if options == nil || options.ResumeToken == "" {
resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
if err != nil {
return nil, err
}
poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
Tracer: client.internal.Tracer(),
})
return poller, err
}

```

```

    } else {
        return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]){
            Tracer:
client.internal.Tracer(),
        })
    }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginUpdate"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return
        nil, err
    }
    return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
    urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
    if client.subscriptionID == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    if resourceGroupName == "" {
        return nil, errors.New("parameter resourceGroupName cannot be empty")
    }

```

```

}
urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
if licenseName == "" {
    return nil, errors.New("parameter licenseName cannot be empty")
}
urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
url.PathEscape(licenseName))
req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
if err != nil {
    return nil, err
}
reqQP := req.Raw().URL.Query()
reqQP.Set("api-version", "2024-07-31-preview")
req.Raw().URL.RawQuery = reqQP.Encode()
req.Raw().Header["Accept"] = []string{"application/json"}
if err := runtime.MarshalAsJSON(req, parameters); err != nil {
    return nil, err
}
return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
// - parameters - Parameters supplied to the license validation operation.
// - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
// method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
if options == nil || options.ResumeToken == "" {
    resp, err := client.validateLicense(ctx, parameters, options)
    if err != nil {
        return nil, err
    }
    poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
        Tracer: client.internal.Tracer(),
    })
    return poller, err
} else {
    return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
        Tracer: client.internal.Tracer(),
    })
}
}

```

```

}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
(*http.Response, error) {
    var err error
    const operationName = "LicensesClient.BeginValidateLicense"
    ctx = context.WithValue(ctx, runtime.CtxAPINameKey{ }, operationName)
    ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
    defer func() { endSpan(err) }()
    req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
    if err != nil {
        return nil, err
    }
    httpResp, err := client.internal.Pipeline().Do(req)
    if err != nil {
        return nil, err
    }
    if !runtime.HasStatusCode(httpResp, http.StatusOK) {
        err = runtime.NewResponseError(httpResp)
        return nil, err
    }
    return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
    urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
    if client.subscriptionID
    == "" {
        return nil, errors.New("parameter client.subscriptionID cannot be empty")
    }
    urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
    req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
    if err != nil {
        return nil, err
    }
    reqQP := req.Raw().URL.Query()
    reqQP.Set("api-version", "2024-07-31-preview")
    req.Raw().URL.RawQuery = reqQP.Encode()
    req.Raw().Header["Accept"] = []string{"application/json"}
    if err := runtime.MarshalAsJSON(req, parameters); err != nil {
        return nil, err
    }

```

```
}  
return req, nil  
}
```

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```
//go:build go1.18
```

```
// +build go1.18
```

```
// Copyright (c) Microsoft Corporation. All rights reserved.
```

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```

```
// Code generated by Microsoft (R) AutoRest Code Generator.
```

```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
```

```
// DO NOT EDIT.
```

```
package armhybridcompute_test
```

```
import (
```

```
    "context"
```

```
    "log"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
```

```
    "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
```

```
)
```

```
// Generated from example definition: https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\_ValidateLicense.json
```

```
func ExampleLicensesClient_BeginValidateLicense() {
```

```
    cred, err := azidentity.NewDefaultAzureCredential(nil)
```

```
    if err !=
```

```
        nil {
```

```
        log.Fatalf("failed to obtain a credential: %v", err)
```

```
    }
```

```
    ctx := context.Background()
```

```
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
```

```
    if err != nil {
```

```
        log.Fatalf("failed to create client: %v", err)
```

```
    }
```

```
    poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
```

```
        Location: to.Ptr("eastus2euap"),
```

```

Properties: &armhybridcompute.LicenseProperties{
  LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:    to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:    to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
}, nil)
if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err !=
nil {
  log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//   Name: to.Ptr("{licenseName}"),
//   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//   ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
//   Location: to.Ptr("eastus2euap"),
//   Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//       AssignedLicenses: to.Ptr[int32](2),
//       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//       ImmutableID: to.Ptr("<generated Guid>"),
//       Processors: to.Ptr[int32](6),
//     },
//     State: to.Ptr(armhybridcompute.LicenseStateActivated),
//     Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenantId}"),
// },
// }

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json

```



```

func ExampleLicensesClient_BeginCreateOrUpdate() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
        "{licenseName}", armhybridcompute.License{
            Location: to.Ptr("eastus2euap"),
            Properties: &armhybridcompute.LicenseProperties{
                LicenseDetails: &armhybridcompute.LicenseDetails{
                    Type:    to.Ptr(armhybridcompute.LicenseCoreTypePCore),
                    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
                    Processors: to.Ptr[int32](6),
                    State:    to.Ptr(armhybridcompute.LicenseStateActivated),
                    Target:   to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
                },
                LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
            },
        }, nil)
    if err != nil {
        log.Fatalf("failed to finish the request: %v", err)
    }
    res, err := poller.PollUntilDone(ctx, nil)
    if err != nil {
        log.Fatalf("failed to pull the result: %v", err)
    }
    // You could use response here. We use blank identifier for just demo purposes.
    _ = res
    // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
    Please pay attention that all the values
    in the output are fake values for just demo purposes.
    // res.License = armhybridcompute.License{
    //     Name: to.Ptr("{licenseName}"),
    //     Type: to.Ptr("Microsoft.HybridCompute/licenses"),
    //     ID:
    to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
    enses/{licenseName}"),
    //     Location: to.Ptr("eastus2euap"),
    //     Properties: &armhybridcompute.LicenseProperties{
    //         LicenseDetails: &armhybridcompute.LicenseDetails{
    //             Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    //             AssignedLicenses: to.Ptr[int32](2),
    //             Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),

```

```

// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}

// Generated
from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
Properties: &armhybridcompute.LicenseUpdateProperties{
LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
Processors:
to.Ptr[int32](6),
State: to.Ptr(armhybridcompute.LicenseStateActivated),
Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
},
LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
}, nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res

```

// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.  
Please pay attention that all the values in the output are fake values for just demo purposes.

```
// res.License = armhybridcompute.License{
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/licenses/{licenseName}"),
//
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }
}
```

// Generated from example definition: [https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License\\_Get.json](https://github.com/Azure/azure-rest-api-specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json)

```
func ExampleLicensesClient_Get() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
}
```

// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.  
Please pay attention that all the values in the output are fake values for just demo purposes.

```

// res.License = armhybridcompute.License{
//   Name: to.Ptr("{licenseName}"),
//   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//
//   Location: to.Ptr("eastus2euap"),
//   Properties: &armhybridcompute.LicenseProperties{
//     LicenseDetails: &armhybridcompute.LicenseDetails{
//       Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//       AssignedLicenses: to.Ptr[int32](8),
//       Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//       ImmutableID: to.Ptr("<generated Guid>"),
//       Processors: to.Ptr[int32](6),
//       State: to.Ptr(armhybridcompute.LicenseStateActivated),
//       Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//     },
//     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//     TenantID: to.Ptr("{tenantId}"),
//   },
// }

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
{
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
log.Fatalf("failed to finish the request: %v", err)
}
_, err = poller.PollUntilDone(ctx, nil)
if err != nil {
log.Fatalf("failed to pull the result: %v", err)
}
}

```

```

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
    cred, err := azidentity.NewDefaultAzureCredential(nil)
    if
    err != nil {
        log.Fatalf("failed to obtain a credential: %v", err)
    }
    ctx := context.Background()
    clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
    if err != nil {
        log.Fatalf("failed to create client: %v", err)
    }
    pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
    for pager.More() {
        page, err := pager.NextPage(ctx)
        if err != nil {
            log.Fatalf("failed to advance page: %v", err)
        }
        for _, v := range page.Value {
            // You could use page here. We use blank identifier for just demo purposes.
            _ = v
        }
        // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
        Please pay attention that all the values in the output are fake values for just demo purposes.
        // page.LicensesListResult = armhybridcompute.LicensesListResult{
        //   Value: []*armhybridcompute.License{
        //     {
        //       Name: to.Ptr("{licenseName}"),
        //
        //       Type: to.Ptr("Microsoft.HybridCompute/licenses"),
        //       ID:
        to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
        //       Location: to.Ptr("eastus2euap"),
        //       Properties: &armhybridcompute.LicenseProperties{
        //         LicenseDetails: &armhybridcompute.LicenseDetails{
        //           Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
        //           AssignedLicenses: to.Ptr[int32](8),
        //           Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
        //           ImmutableID: to.Ptr("<generated Guid>"),
        //           Processors: to.Ptr[int32](6),
        //           State: to.Ptr(armhybridcompute.LicenseStateActivated),
        //           Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
        //         },
        //         LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),

```

```

// TenantID: to.Ptr("{tenandId}"),
// },
// }},
// }
}
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListBySubscription.json
func
ExampleLicensesClient_NewListBySubscriptionPager() {
cred, err := azidentity.NewDefaultAzureCredential(nil)
if err != nil {
log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
log.Fatalf("failed to create client: %v", err)
}
pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
for pager.More() {
page, err := pager.NextPage(ctx)
if err != nil {
log.Fatalf("failed to advance page: %v", err)
}
for _, v := range page.Value {
// You could use page here. We use blank identifier for just demo purposes.
_ = v
}
// If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
// page.LicensesListResult = armhybridcompute.LicensesListResult{
// Value: []*armhybridcompute.License{
// {
// Name: to.Ptr("{licenseName}"),
// Type: to.Ptr("Microsoft.HybridCompute/licenses"),
// ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
// Location: to.Ptr("eastus2euap"),
// Properties: &armhybridcompute.LicenseProperties{
// LicenseDetails: &armhybridcompute.LicenseDetails{
// Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
// AssignedLicenses: to.Ptr[int32](8),
// Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),

```

```
// ImmutableID: to.Ptr("<generated Guid>"),
// Processors: to.Ptr[int32](6),
// State: to.Ptr(armhybridcompute.LicenseStateActivated),
// Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//
// },
// LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
// TenantID: to.Ptr("{tenantId}"),
// },
// }},
// }
}
}
```

# 1.528 go.opentelemetry.io/otel/sdk/metric

## 1.35.0

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## 1.530 mux 1.9.2

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## 1.537 [github.com/lithammer/shortuuid/v4](https://github.com/lithammer/shortuuid/v4)

### 4.2.0

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## 1.538

## [github.com/googlecloudplatform/opentelemetry-operations-go/exporter/metric](https://github.com/googlecloudplatform/opentelemetry-operations-go/exporter/metric) 0.51.0

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# 1.539 [github.com/minio/mux](https://github.com/minio/mux) 1.9.2

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# 1.540 github.com/googleapis/enterprise-certificate-proxy 0.3.5

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\*/

package minio

import (

"bytes"

"context"

"encoding/xml"

"fmt"

"net/http"

"net/url"

"github.com/minio/minio-go/v7/pkg/s3utils"

)

// objectLegalHold - object legal hold specified in

// <https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html>

type objectLegalHold struct {

XMLNS string `xml:"xmlns,attr,omitempty"`

XMLName

xml.Name `xml:"LegalHold"`

Status LegalHoldStatus `xml:"Status,omitempty"`

}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call

type PutObjectLegalHoldOptions struct {



```

VersionID string
Status *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
    // LegalHoldEnabled indicates legal hold is enabled
    LegalHoldEnabled LegalHoldStatus = "ON"

    // LegalHoldDisabled indicates legal hold is disabled
    LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
(*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {

```

```

return err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
urlValues.Set("versionId", opts.VersionID)
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
return err
}

lhData, err := xml.Marshal(lh)
if
err != nil {
return err
}

reqMetadata := requestMetadata{
bucketName:    bucketName,
objectName:    objectName,
queryValues:   urlValues,
contentBody:   bytes.NewReader(lhData),
contentLength: int64(len(lhData)),
contentMD5Base64: sumMD5Base64(lhData),
contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
return err
}
if resp != nil {
if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
return httpRespToErrorResponse(resp, bucketName, objectName)
}
}
}

```

```

return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
// Input validation.
if err := s3utils.CheckValidBucketName(bucketName); err != nil {
return
nil, err
}

if err := s3utils.CheckValidObjectName(objectName); err != nil {
return nil, err
}
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
urlValues.Set("versionId", opts.VersionID)
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
bucketName:    bucketName,
objectName:    objectName,
queryValues:   urlValues,
contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
return nil, err
}
if resp != nil {
if resp.StatusCode != http.StatusOK {
return nil, httpRespToErrorResponse(resp, bucketName, objectName)
}
}
lh := &objectLegalHold{ }
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
return nil, err
}

return &lh.Status, nil
}

```

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A

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package madmin

import (
    "context"
    "encoding/json"
    "net/http"
    "time"
)

//msgp:clearomitted
//msgp:tag json
//go:generate msgp
// LicenseInfo is a structure containing MinIO license information.

type LicenseInfo struct {
    ID
    string `json:"ID"` // The license ID
    Organization string `json:"Organization"` // Name of the organization using the license
    Plan string `json:"Plan"` // License plan. E.g. "ENTERPRISE-PLUS"
    IssuedAt time.Time `json:"IssuedAt"` // Point in time when the license was issued
    ExpiresAt time.Time `json:"ExpiresAt"` // Point in time when the license expires
    Trial bool `json:"Trial"` // Whether the license is on trial
    APIKey string `json:"APIKey"` // Subnet account API Key
}

// GetLicenseInfo - returns the license info
func (adm *AdminClient) GetLicenseInfo(ctx context.Context) (*LicenseInfo, error) {
    // Execute GET on /minio/admin/v3/licenseinfo to get license info.
    resp, err := adm.executeMethod(ctx,
        http.MethodGet,
        requestData{

```

```

    relPath: adminAPIPrefix + "/license-info",
  })
  defer closeResponse(resp)
  if err != nil {
    return nil, err
  }

  if resp.StatusCode != http.StatusOK {
    return
    nil, httpRespToErrorResponse(resp)
  }

  l := LicenseInfo{}
  err = json.NewDecoder(resp.Body).Decode(&l)
  if err != nil {
    return nil, err
  }
  return &l, nil
}

```

# 1.552 prom2json 1.4.2

## 1.552.1 Available under license :

A tool to scrape a Prometheus client and dump the result as JSON.  
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Date: Fri, 6 Jun 2003 10:18:52 -0700  
From: Juan Gomez <juang@us.ibm.com>  
To: Stephen Frost <sfrost@debian.org>  
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999  
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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did for the openldap server as long as this is consistent with the openldap  
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Regards, Juan  
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 Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)  
 From: Mark Adamson <adamson@andrew.cmu.edu>  
 To: Stephen Frost <sfrost@debian.org>  
 Subject: Re: Mark Adamson license in OpenLDAP source

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- \* Subject: Re: OpenLDAP Licenseing issues
- \* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
- \* Date: Wed, 28 May 2003 10:55:44 -0700
- \* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
- \* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
- \* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
- \* Old-return-path: <Kurt@OpenLDAP.org>

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//

package madmin

import (
    "context"
    "encoding/json"
    "net/http"
    "time"
)

//msgp:clearomitted
//msgp:tag json
//go:generate msgp
// LicenseInfo is a structure containing MinIO license information.

type LicenseInfo struct {
    ID
    string `json:"ID"` // The license ID
    Organization string `json:"Organization"` // Name of the organization using the license
    Plan string `json:"Plan"` // License plan. E.g. "ENTERPRISE-PLUS"
    IssuedAt time.Time `json:"IssuedAt"` // Point in time when the license was issued
    ExpiresAt time.Time `json:"ExpiresAt"` // Point in time when the license expires
    Trial bool `json:"Trial"` // Whether the license is on trial
    APIKey string `json:"APIKey"` // Subnet account API Key
}

// GetLicenseInfo - returns the license info
func (adm *AdminClient) GetLicenseInfo(ctx context.Context) (*LicenseInfo, error) {
    // Execute GET on /minio/admin/v3/licenseinfo to get license info.
    resp, err := adm.executeMethod(ctx,
        http.MethodGet,
        requestData{
            relPath: adminAPIPrefix + "/license-info",

```

```

    })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }

    if resp.StatusCode != http.StatusOK {
        return
        nil, httpRespToErrorResponse(resp)
    }

    l := LicenseInfo{}
    err = json.NewDecoder(resp.Body).Decode(&l)
    if err != nil {
        return nil, err
    }
    return &l, nil
}

```

# 1.558 madmin-go 3.0.109

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A

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//
```

package madmin

```
import (  
    "context"  
    "encoding/json"  
    "net/http"  
    "time"  
)  
  
//msgp:clearomitted  
//msgp:tag json  
//go:generate msgp  
// LicenseInfo is a structure containing MinIO license information.  
  
type LicenseInfo struct {  
    ID  
        string `json:"ID"` // The license ID  
    Organization string `json:"Organization"` // Name of the organization using the license  
    Plan         string `json:"Plan"` // License plan. E.g. "ENTERPRISE-PLUS"  
    IssuedAt     time.Time `json:"IssuedAt"` // Point in time when the license was issued  
    ExpiresAt    time.Time `json:"ExpiresAt"` // Point in time when the license expires  
    Trial         bool `json:"Trial"` // Whether the license is on trial
```

```

APIKey    string `json:"APIKey"`    // Subnet account API Key
}

// GetLicenseInfo - returns the license info
func (adm *AdminClient) GetLicenseInfo(ctx context.Context) (*LicenseInfo, error) {
    // Execute GET on /minio/admin/v3/licenseinfo to get license info.
    resp, err := adm.executeMethod(ctx,
        http.MethodGet,
        requestData{
            relPath: adminAPIPrefix + "/license-info",
        })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }

    if resp.StatusCode != http.StatusOK {
        return
        nil, httpRespToErrorResponse(resp)
    }

    l := LicenseInfo{}
    err = json.NewDecoder(resp.Body).Decode(&l)
    if err != nil {
        return nil, err
    }
    return &l, nil
}

```

**1.559 [github.com/minio/madmin-go/v3](https://github.com/minio/madmin-go/v3)**

**3.0.107-0.20250415152934-4b504b82db63**

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### A

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//
```

package madmin

```
import (  
    "context"  
    "encoding/json"  
    "net/http"  
    "time"  
)  
  
//msgp:clearomitted  
//msgp:tag json  
//go:generate msgp  
// LicenseInfo is a structure containing MinIO license information.  
  
type LicenseInfo struct {  
    ID  
        string `json:"ID"` // The license ID  
    Organization string `json:"Organization"` // Name of the organization using the license  
    Plan        string `json:"Plan"` // License plan. E.g. "ENTERPRISE-PLUS"  
    IssuedAt    time.Time `json:"IssuedAt"` // Point in time when the license was issued  
    ExpiresAt   time.Time `json:"ExpiresAt"` // Point in time when the license expires  
    Trial        bool `json:"Trial"` // Whether the license is on trial  
    APIKey      string `json:"APIKey"` // Subnet account API Key  
}
```

```

// GetLicenseInfo - returns the license info
func (adm *AdminClient) GetLicenseInfo(ctx context.Context) (*LicenseInfo, error) {
    // Execute GET on /minio/admin/v3/licenseinfo to get license info.
    resp, err := adm.executeMethod(ctx,
        http.MethodGet,
        requestData{
            relPath: adminAPIPrefix + "/license-info",
        })
    defer closeResponse(resp)
    if err != nil {
        return nil, err
    }

    if resp.StatusCode != http.StatusOK {
        return
        nil, httpRespToErrorResponse(resp)
    }

    l := LicenseInfo{}
    err = json.NewDecoder(resp.Body).Decode(&l)
    if err != nil {
        return nil, err
    }
    return &l, nil
}

```

# 1.560 google-cloud-go 0.118.0

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```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
    "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will
    require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options

```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    //
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
    }
    resp,
    err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```



```

func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
    }
    resp, err := c.GetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Insert()
{
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.InsertLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
    }
    op, err := c.Insert(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template
    // only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp

        // If you need to access the underlying RPC response,
        // you can do so by casting the `Response` as below.
        // Otherwise, remove this line. Only populated after
        // first call to Next(). Not safe for concurrent access.
        _ = it.Response.(*computepb.LicensesListResponse)
    }
}

func
ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.

```

```

// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically
    // generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    //   https://pkg.go.dev/cloud.google.com/go#hdr-Client\_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    //
    // - It may require correct/in-range values for request initialization.

```

```

// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request
    struct fields.
    // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    // This snippet has been automatically generated and should be regarded as a code template only.
    // It will require modifications to work:
    // - It may require correct/in-range values for request initialization.
    // - It may require specifying regional endpoints when creating the service client as shown in:
    // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
    }
    resp,
    err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

```

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```
// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//   protoc-gen-go v1.34.2
//   protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto
```

```
package generativelanguagepb
```

```
import (
    reflect "reflect"
    sync "sync"
```

```
    _ "google.golang.org/genproto/googleapis/api/annotations"
    protoreflect "google.golang.org/protobuf/reflect/protoreflect"
    protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
(
    // Verify that this generated code is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
    // Verify that runtime/protoimpl is sufficiently up-to-date.
    _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)
```

```
// Defines types of the grantee of this permission.
type Permission_GranteeType int32
```

```
const (
    // The default value. This value is unused.
    Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
    // Represents a user. When set, you must provide email_address for the user.
    Permission_USER Permission_GranteeType = 1
    // Represents a group. When set, you must provide email_address for the
    // group.
    Permission_GROUP Permission_GranteeType = 2
    // Represents access to everyone. No extra information is required.
    Permission_EVERYONE Permission_GranteeType = 3
)
```

```

)

// Enum value maps for Permission_GrantType.
var (
    Permission_GrantType_name = map[int32]string{
        0: "GRANTEE_TYPE_UNSPECIFIED",
        1: "USER",
        2:
        "GROUP",
        3: "EVERYONE",
    }
    Permission_GrantType_value = map[string]int32{
        "GRANTEE_TYPE_UNSPECIFIED": 0,
        "USER":                      1,
        "GROUP":                    2,
        "EVERYONE":                 3,
    }
)

func (x Permission_GrantType) Enum() *Permission_GrantType {
    p := new(Permission_GrantType)
    *p = x
    return p
}

func (x Permission_GrantType) String() string {
    return protoimpl.X.EnumStringOf(x.Descriptor(), protorelect.EnumNumber(x))
}

func (Permission_GrantType) Descriptor() protorelect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GrantType) Type() protorelect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GrantType) Number() protorelect.EnumNumber {
    return protorelect.EnumNumber(x)
}

// Deprecated: Use Permission_GrantType.Descriptor instead.
func (Permission_GrantType) EnumDescriptor() ([]byte,
    []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.

```

```

type Permission_Role int32

const (
    // The default value. This value is unused.
    Permission_ROLE_UNSPECIFIED Permission_Role = 0
    // Owner can use, update, share and delete the resource.
    Permission_OWNER Permission_Role = 1
    // Writer can use, update and share the resource.
    Permission_WRITER Permission_Role = 2
    // Reader can use the resource.
    Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
    Permission_Role_name = map[int32]string{
        0: "ROLE_UNSPECIFIED",
        1: "OWNER",
        2: "WRITER",
        3: "READER",
    }
    Permission_Role_value = map[string]int32{
        "ROLE_UNSPECIFIED": 0,
        "OWNER":           1,
        "WRITER":           2,
        "READER":           3,
    }
)

func (x Permission_Role) Enum() *Permission_Role {
    p := new(Permission_Role)
    *p = x
    return p
}

func (x Permission_Role) String() string {
    return
        protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
    return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
    return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

```

```

func (x Permission_Role) Number() protoreflect.EnumNumber {
    return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
// you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
    state      protoimpl.MessageState
    sizeCache  protoimpl.SizeCache
    unknownFields protoimpl.UnknownFields

    // Output only. Identifier. The permission name. A unique name will be
    // generated on create. Examples:
    //
    // tunedModels/{tuned_model}/permissions/{permission}
    // corpora/{corpus}/permissions/{permission}
    //
    // Output only.
    Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
    // Optional. Immutable. The type of the grantee.
    GranteeType *Permission_GranteeType
    `protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Permission_GranteeType,oneof"
    json:"grantee_type,omitempty"`
    // Optional. Immutable. The email address of the user of group which this
    // permission refers. Field is not set when permission's grantee type is
    // EVERYONE.
    EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
    json:"email_address,omitempty"`
    // Required. The role granted by this permission.

```

```

Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

```

```

func (x *Permission) Reset() {
*x = Permission{}
if protoimpl.UnsafeEnabled {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
ms.StoreMessageInfo(mi)
}
}

```

```

func (x *Permission) String() string {
return protoimpl.X.MessageStringOf(x)
}

```

```

func (*Permission) ProtoMessage() {}

```

```

func (x *Permission)
ProtoReflect() protoreflect.Message {
mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
if protoimpl.UnsafeEnabled && x != nil {
ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
if ms.LoadMessageInfo() == nil {
ms.StoreMessageInfo(mi)
}
return ms
}
return mi.MessageOf(x)
}

```

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.

```

func (*Permission) Descriptor() ([]byte, []int) {
return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

```

```

func (x *Permission) GetName() string {
if x != nil {
return x.Name
}
return ""
}

```

```

func (x *Permission) GetGranteeType() Permission_GranteeType {
if x != nil && x.GranteeType != nil {
return *x.GranteeType
}
}

```

```

}
return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
    if x != nil && x.EmailAddress != nil {
        return *x.EmailAddress
    }
    return ""
}

func (x *Permission) GetRole() Permission_Role {
    if x != nil && x.Role
    != nil {
        return *x.Role
    }
    return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
    0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
    0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
    0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
    0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
    0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
    0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
    0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
    0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
    0x19, 0x67, 0x6f,
    0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
    0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
    0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
    0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
    0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
    0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
    0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
    0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
    0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
    0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
    0x0b, 0x67,
    0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
    0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
    0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
    0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
    0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
    0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,

```



0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,  
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,  
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,  
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,  
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,  
0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,  
0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,  
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,  
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,  
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,  
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,  
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,  
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,  
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,  
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,  
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,  
0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,  
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,  
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,  
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,  
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,  
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,  
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,  
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,  
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,  
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,  
0x64,  
0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,  
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,  
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,  
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,  
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,  
0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,  
0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,  
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0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,  
0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,  
0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,  
0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,  
0x72, 0x6f, 0x74, 0x6f, 0x33,  
}

```
var (  
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once  
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =  
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc  
)
```

```

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
    file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
        file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
    })
    return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes =
    []any{
        (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
        (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
        (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
    }
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
    0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
        google.ai.generativelanguage.v1beta.Permission.GranteeType
    1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
        google.ai.generativelanguage.v1beta.Permission.Role
    2, // [2:2] is the sub-list for method output_type
    2, // [2:2] is the sub-list for method input_type
    2, // [2:2] is the sub-list for extension type_name
    2, // [2:2] is the sub-list for extension extendee
    0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
    file_google_ai_generativelanguage_v1beta_permission_proto_init() {
    if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
        return
    }
    if !protoimpl.UnsafeEnabled {
        file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
            switch v := v.(*Permission); i {
            case 0:
                return &v.state
            case 1:
                return &v.sizeCache
            case 2:
                return &v.unknownFields
            default:
                return nil
            }
        }
    }
}

```

```

}
file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
type x struct{}
out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
    GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
    RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
    NumEnums: 2,
    NumMessages: 1,
    NumExtensions: 0,
    NumServices: 0,
  },
  GoTypes: file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
    file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos: file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
}.Build()
File_google_ai_generativelanguage_v1beta_permission_proto = out.File
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
  "bytes"
  "context"
  "fmt"
  "io"
  "net/http"
  "net/url"

```

```

"time"

compute pb "cloud.google.com/go/compute/apiv1/compute.pb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
    return &LicenseCodesCallOptions{
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                http.StatusGatewayTimeout,
                http.StatusServiceUnavailable)
            }),
        },
        TestIamPermissions: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
    }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *compute.pb.GetLicenseCodeRequest, ...gax.CallOption) (*compute.pb.LicenseCode, error)
}

```

```

TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
    Close() error {
        return c.internalClient.Close()
    }

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
error) {
    return c.internalClient.Get(ctx, req, opts...)
}

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicenseCodesClient
    CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
// creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicenseCodesRESTCallOptions()
    c := &licenseCodesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

```

```

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{ "gl-go", gax.GoVersion }, keyval...)
    kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

```

```

}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

hds = append(c.xGoogHeaders, hds...)
hds
= append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return nil
}, opts...)
if e != nil {

```



```

    return
    nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
    req.GetProject(), req.GetResource())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

    hds
    = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts =
    append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
    tIamPermissions)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if
err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}
// Copyright 2024 Google LLC
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"

```

```

"context"
"fmt"
"io"
"math"
"net/http"
"net/url"
"time"

computepb "cloud.google.com/go/compute/apiv1/computepb"
gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport
"google.golang.org/api/transport/http"
"google.golang.org/grpc"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get        []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert     []gax.CallOption
    List       []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
    return &LicensesCallOptions{
        Delete: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
        },
        Get: []gax.CallOption{
            gax.WithTimeout(600000 * time.Millisecond),
            gax.WithRetry(func() gax.Retryer {
                return gax.OnHTTPCodes(gax.Backoff{
                    Initial: 100 * time.Millisecond,
                    Max: 60000 * time.Millisecond,
                    Multiplier: 1.30,
                },
                http.StatusGatewayTimeout,

```

```

    http.StatusServiceUnavailable)
    }),
    },
    GetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    Insert: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    List: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
        gax.WithRetry(func() gax.Retryer {
            return gax.OnHTTPCodes(gax.Backoff{
                Initial: 100 * time.Millisecond,
                Max:     60000 * time.Millisecond,
                Multiplier: 1.30,
            }),
            http.StatusGatewayTimeout,
            http.StatusServiceUnavailable)
        }),
    },
    SetIamPolicy: []gax.CallOption{
        gax.WithTimeout(600000 * time.Millisecond),
    },
    TestIamPermissions: []gax.CallOption{
        gax.WithTimeout(600000
* time.Millisecond),
    },
}
}

```

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.

type internalLicensesClient interface {

Close() error

setGoogleClientInfo(...string)

Connection() \*grpc.ClientConn

Delete(context.Context, \*computepb.DeleteLicenseRequest, ...gax.CallOption) (\*Operation, error)

Get(context.Context, \*computepb.GetLicenseRequest, ...gax.CallOption) (\*computepb.License, error)

```

    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```

type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

```

// The call options for this service.

```

    CallOptions *LicensesCallOptions
}

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```

func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

```

//

Connection returns a connection to the API service.

//

// Deprecated: Connections are now pooled so this method does not always

// return the same resource.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

```

```

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by
third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use

```

```

only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
    operationClient *GlobalOperationsClient

    // The x-goog-* headers to be sent with each request.
    xGoogHeaders []string

    // Points back to the CallOptions field of the containing LicensesClient
    CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    callOpts := defaultLicensesRESTCallOptions()
    c := &licensesRESTClient{
        endpoint:  endpoint,
        httpClient: httpClient,
        CallOptions: &callOpts,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }

```

```

    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultUniverseDomain("googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
        internaloption.EnableNewAuthLibrary(),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
    kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogHeaders = []string{
        "x-goog-api-client", gax.XGoogHeader(kv...),
    }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient
    = nil
    if err := c.operationClient.Close(); err != nil {
        return err
    }
    return nil
}

// Connection returns a connection to the API service.
//

```



```

// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{ "x-goog-request-params",
    fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
    url.QueryEscape(req.GetLicense())) }

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)
    opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    resp := &computepb.Operation{ }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
        if err != nil {
            return err
        }
        httpReq = httpReq.WithContext(ctx)
        httpReq.Header = headers

        httpResp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
    })

```

```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf,
err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
    url.QueryEscape(req.GetProject()),
    "license", url.QueryEscape(req.GetLicense()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")

```

```

headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err
:= unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.  
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.  
 func (c \*licensesRESTClient) GetIamPolicy(ctx context.Context, req \*computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (\*computepb.Policy, error) {  
 baseUrl, err := url.Parse(c.endpoint)

```

if err != nil {
    return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

params := url.Values{ }
if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and
context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp);
    err != nil {
        return err
    }
}

```

```

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

    params := url.Values{ }
    if req != nil && req.RequestId != nil {
        params.Add("requestId",
            fmt.Sprintf("%v", req.GetRequestId()))
    }

    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

    hds = append(c.xGoogHeaders, hds...)
    hds = append(hds, "Content-Type", "application/json")
    headers := gax.BuildHeaders(ctx, hds...)

```

```

opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err !=
nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c:    c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{ }
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unmarshalOptions := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{ }
        if pageToken != "" {
            req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
            req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
            req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, err := url.Parse(c.endpoint)
        if err != nil {
            return nil, "", err
        }
        baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

        params := url.Values{ }
        if req != nil && req.Filter != nil {
            params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
        }
        if req != nil && req.MaxResults != nil {
            params.Add("maxResults",
                fmt.Sprintf("%v", req.GetMaxResults()))
        }
        if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
        }
        if req != nil && req.PageToken != nil {
            params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
        }
        if req != nil && req.ReturnPartialSuccess != nil {
            params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
        }

        baseUrl.RawQuery = params.Encode()

        // Build HTTP headers from client and context metadata.
```

```

hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if settings.Path != "" {
        baseUrl.Path = settings.Path
    }
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
    if err != nil {
        return err
    }
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return
    }
    err
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := io.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unmarshal(buf, resp); err != nil {
        return err
    }

    return nil
}, opts...)
if e != nil {
    return nil, "", e
}
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

```



```

}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
}

```

```

httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return err
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*compute.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),

```

```

req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type",
"application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := io.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return err
}

return
nil
}, opts...)

```

```
if e != nil {  
    return nil, e  
}  
return resp, nil  
}
```

# 1.561 [github.com/go-sql-driver/mysql](https://github.com/go-sql-driver/mysql) 1.9.0

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# 1.562 [github.com/beevik/ntp](https://github.com/beevik/ntp) 1.4.3

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Brett Vickers (beevik)

Mikhail Salosin (AlphaB)

Anton Tolchanov (knyar)

Christopher Batey (chbatey)

Meng Zhuo (mengzhuo)

Leonid Evdokimov (darkk)

Ask Bjrn Hansen (abh)

Al Cutter (AlCutter)

Silves-Xiang (silves-xiang)

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