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1.15 goglob 1.0.0

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1.17 gopkg.in-yaml 3.0.1

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1.18 go-multierror 1.1.1

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1.20 mitchellh-mapstructure 1.5.0

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1.21 gomodule-redigo 1.9.2

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1.26 github.com/go-jose/go-jose/v4 4.0.4

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1.27 alpine-keys 2.5-r0

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# Automatically generated by apkbuild-cpan, template 1
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pkgname=perl-software-license
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url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"
```

```
_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver
build() {
 cd "$_builddir"
 ./configure --prefix=/usr || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 rm "$pkgdir"/usr/lib/*.la
}
```

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"
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1.28 go-rootcerts 1.0.2

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1.31 bash 5.2.37-r0

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1.32 libpsl 0.21.5-r3

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1.33 pax-utils 1.3.8-r1

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.36 nghttp2 1.64.0-r0

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1.37 vault-api 1.15.0

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---
layout: docs
page_title: Vault Enterprise License
description: An overview of license.

Vault license

@include 'alerts/enterprise-and-hcp-plus.mdx'

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[FAQ](/vault/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](/vault/tutorials/enterprise/hashicorp-enterprise-license) tutorial
provides the instruction to load your Vault license.
{{!
Copyright (c) HashiCorp, Inc.
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~}}

<LicenseInfo
@startTime={{this.model.startTime}}
@expirationTime={{this.model.expirationTime}}
@licenseId={{this.model.licenseId}}
@features={{this.model.features}}

@autoloaded={{this.model.autoloaded}}
@performanceStandbyCount={{this.model.performanceStandbyCount}}
/>
---
layout: docs
page_title: license get - Command
description: |-
The "license get" command reports on the license in use.
---

license get

The `license get` command reports on the license in use. With the `-signed`
flag, it will return the actual license string, but only if the license
is stored, as opposed to [autoloaded](/vault/docs/enterprise/license/autoloading).

Examples

Describe current license:

```shell-session
$ vault license get
Key                      Value
---                      -----
expiration_time          2022-05-17T23:59:59Z
features                 [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id               060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count  9999
start_time               2021-05-17T00:00:00Z
termination_time
        2031-05-17T23:59:59Z
```

Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
License not found or using a temporary license.
```

Usage

The following flags are available in addition to the [standard set of flags](/vault/docs/commands) included on all commands.

Command options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.
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<PageHeader as |p|>
 <p.levelLeft>
  <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Details</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  <InfoTableRow @label="License ID" @value={{@licenseId}} data-test-detail-row />
  <InfoTableRow @label="Valid from" @value={{@startTime}} data-test-detail-row>
   {{date-format @startTime "MMM dd, yyyy hh:mm:ss a"}}
   to
   {{date-format @expirationTime "MMM dd, yyyy hh:mm:ss a"}}
  </InfoTableRow>
  <InfoTableRow @label="License state" @value={{"Autoloaded"}} data-test-detail-row />
 </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
   {{#each this.featuresInfo as |info|}}
    <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} data-test-feature-row>
     {{#if info.active}}
      <Icon @name="check-circle" class="icon-true" />
      <span data-test-feature-status>
       Active
       {{#if info.count}}&mdash; {{info.count}} standby nodes allotted{{/if}}
      </span>
     {{else}}
      <Icon @name="x-circle" class="icon-false" />
      <span data-test-feature-status>Not Active</span>
     {{/if}}
    </InfoTableRow>
  {{/each}}
 </div>
</section>
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```

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---
layout: api
page_title: /sys/license/status - HTTP API
description: |-
 The `/sys/license/status` endpoint is used to view the license used in
 Vault.

`/sys/license/status`

@include 'alerts/enterprise-and-hcp-plus.mdx'

The `/sys/license/status` endpoint is used to view update the license used in
Vault.

License status

@include 'alerts/restricted-admin.mdx'

This endpoint returns information about licensing. See [license
autoloading](/vault/docs/enterprise/license/autoloading) for additional background.

In the response:

- `autoloading_used` will be true if an autoloaded license was provided to the
 node, false otherwise. This should always be true from Vault 1.11.0 onward.
- `autoloaded` is the autoloaded license if autoloading_used is true.
- `persisted_autoload` is the autoloaded license the active node last wrote to

storage; this is only used to detect inconsistently licensed nodes in the
cluster. It cannot be used as a license itself.
- `stored` was used for
the stored license prior to Vault 1.11.0. Stored licenses are no longer supported.

`autoloaded`, and `persisted_autoload` will both have the same structure.

Method	Path
`GET`	`/sys/license/status`

Sample request

```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/status
```

Sample response

```json
{
 "data": {
  "autoloading_used": true,
  "autoloaded": {
   "expiration_time": "2022-05-17T23:59:59Z",
   "features": [
    "HSM",
    "Performance Replication",
    "DR Replication",
    "MFA",
    "Sentinel",
    "Seal Wrapping",
    "Control Groups",
    "Performance Standby",
    "Namespaces",
    "KMIP",
    "Entropy Augmentation",
    "Transform Secrets Engine",
    "Lease Count Quotas",
    "Key Management Secrets Engine",
    "Automated Snapshots"
   ],
   "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
    "performance_standby_count": 9999,
   "start_time": "2021-05-17T00:00:00Z",
   "termination_time": "2031-05-17T23:59:59Z"
```

```
  },
  "persisted_autoload": {
    "expiration_time": "2022-05-17T23:59:59Z",
    "features": [
      "HSM",
      "Performance Replication",
      "DR Replication",
      "MFA",
      "Sentinel",
      "Seal Wrapping",
      "Control Groups",
      "Performance Standby",
      "Namespaces",
      "KMIP",
      "Entropy Augmentation",
      "Transform Secrets Engine",
      "Lease Count Quotas",
      "Key Management Secrets Engine",
      "Automated Snapshots"
    ],
    "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
    "performance_standby_count": 9999,
    "start_time": "2021-05-17T00:00:00Z",
    "termination_time": "2031-05-17T23:59:59Z"
  }
 }
}
```

```
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~}}

{{#if (and this.licenseExpired (not this.expiredDismissed))}}
 <div class="license-banner-wrapper">
  <Hds::Alert
    @type="inline"
    @color="critical"
    @onDismiss={{fn this.dismissBanner "expired"}}
    data-test-license-banner-expired
    as |A|
  >
    <A.Title>License expired</A.Title>
    <A.Description>
      Your Vault license expired on
      {{date-format @expiry "MMM d, yyyy"}}. Add a new license to your configuration and restart Vault.
    </A.Description>
    <A.Description class="has-top-margin-xs">
```

```
      <DocLink @path="/vault/tutorials/enterprise/hashicorp-enterprise-license">
        Read documentation
        <Icon @name="learn-link" />
      </DocLink>
    </A.Description>
  </Hds::Alert>
</div>
{{else if (and (lte this.licenseExpiringInDays 30) (not this.warningDismissed))}}
<div class="license-banner-wrapper">
  <Hds::Alert
    @type="inline"
     @color="warning"
    @onDismiss={{fn this.dismissBanner "warning"}}
    data-test-license-banner-warning
    as |A|
  >
    <A.Title>Vault license expiring</A.Title>
    <A.Description>
      Your Vault license will expire in
      {{this.licenseExpiringInDays}}
      days at
      {{date-format @expiry "hh:mm:ss a"}}
      on
      {{date-format @expiry "MMM d, yyyy"}}.
      {{if
        @autoloaded
        "Add a new license to your configuration."
        "Keep in mind that your next license will need to be autoloaded."
      }}
    </A.Description>
    <A.Description class="has-top-margin-xs">
      <DocLink @path="/vault/tutorials/enterprise/hashicorp-enterprise-license">
        Read documentation
        <Icon @name="learn-link" />
      </DocLink>
    </A.Description>
  </Hds::Alert>
</div>
{{/if}}
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---
layout: docs
page_title: Automated license utilization reporting
description: >-
Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

@include 'alerts/enterprise-and-hcp-plus.mdx'

Automated license utilization reporting sends license utilization data to HashiCorp without requiring you to manually collect and report them. It also lets you review your license usage with the monitoring solution you already use (for example Splunk, Datadog, or others) so you can optimize and manage your deployments. Use these reports to understand how much more you can deploy under your current contract, protect against overutilization, and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization as defined in our contracts. They consist of mostly computed metrics and will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure, unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. The reporting process is GDPR compliant and submits reports roughly once every 24 hours.

Enable automated reporting

To enable automated reporting, you need to make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

1. allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 to https://reporting.hashicorp.services by allow-listing the following IP addresses:

- 100.20.70.12
- 35.166.5.222
- 23.95.85.111
- 44.215.244.1

2. upgrade

Upgrade to a release that supports license utilization reporting. These releases include:

- [Vault Enterprise 1.14.0](https://releases.hashicorp.com/vault/) and later
- [Vault Enterprise 1.13.4](https://releases.hashicorp.com/vault/) and later 1.13.x versions
- [Vault Enterprise 1.12.8](https://releases.hashicorp.com/vault/) and later 1.12.x versions
- [Vault Enterprise 1.11.12](https://releases.hashicorp.com/vault/)

3. check logs

Automatic license utilization reporting will start sending data within roughly 24 hours. Check the server logs for records that the data sent successfully.

You will find log entries similar to the following:

<CodeBlockConfig hideClipboard>

```
```

[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: recording
audit record
[INFO] core.reporting: Report sent:
auditRecord="{\"payload\":{\"payload_version\":\"1\",\"license_id\":\"97afe7b4-b9c8-bf19-bf35-b89b5cc0efea\",\"product\":\"vault\",\"product_version\":\"1.14.0-rc1+ent\",\"export_timestamp\":\"2023-06-01T09:34:44.215133-04:00\",\"snapshots\":[{\"snapshot_version\":1,\"snapshot_id\":\"0001J7H7KMEDRXKM5C1QJGBXV3\",\"process_id\":\"01H1T45CZK2GN9WR22863W2K32\",\"timestamp\":\"2023-06-01T09:34:44.215001-04:00\",\"schema_version\":\"1.0.0\",\"service\":\"vault\",\"metrics\":{\"clientcount.current_month_estimate\":{\"key\":\"clientcount.current_month_estimate\",\"kind\":\"sum\",\"mode\":\"write\",\"labels\":{\"type\":{\"entity\":20,\"nonentity\":11}}},\"clientcount.previous_month_complete\":{\"key\":\"clientcount.previous_month_complete\",\"kind\":\"sum\",\"mode\":\"write\",\"labels\":{\"type\":{\"entity\":10,\"nonentity\":11}}}}],\"metadata\":{\"vault\":{\"billing_start\":\"2023-03-01T00:00:00Z\",\"cluster_id\":\"a8d95acc-ec0a-6087-d7f6-4f054ab2e7fd\"}}}}"
[DEBUG]
core.reporting: completed recording audit record
[DEBUG] core.reporting: export finished successfully
```

</CodeBlockConfig>

If your installation is air-gapped or your network doesnt allow the correct egress, logs will show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] core.reporting: beginning snapshot export
[DEBUG] core.reporting: creating payload
[DEBUG] core.reporting: marshalling payload to json
[DEBUG] core.reporting: generating authentication headers
[DEBUG] core.reporting: creating request
[DEBUG] core.reporting: sending request
[DEBUG] core.reporting: performing request: method=POST url=https://reporting.hashicorp.services
[DEBUG] core.reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check back in 24 hours.
```

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can
 opt-out of automated reporting.

Manually reporting these metrics can be time consuming. Opting out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting will still be required to manually collect and send license utilization metrics to HashiCorp.

If you are considering opting out because youre worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically-reported data please bring them to your account manager.

You have two options to opt out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

HCL configuration

Opting out in your products configuration file doesnt require a system restart, and is the method we recommend. Add the following block to your server configuration file (e.g. `vault-config.hcl`).

```hcl
reporting
 {
 license {
  enabled = false
  }
}
```

<Warning>

When you have a cluster, each node must have the reporting stanza in its configuration to be consistent. In the event of leadership change, nodes will use its server configuration to determine whether or not to opt-out the automated reporting. Inconsistent configuration between nodes will change the reporting status upon active unseal.

</Warning>

You will find the following entries in the server log.

<CodeBlockConfig hideClipboard>

```
[DEBUG] core: reloading automated reporting
[INFO]  core: opting out of automated reporting
[DEBUG] activity: there is no reporting agent configured, skipping counts reporting
```

</CodeBlockConfig>

Environment variable

If you need to, you can also opt out using an environment variable, which will
provide a startup message confirming that you have disabled automated reporting.
This option requires a system restart.

<Note>

If the reporting stanza exists in the configuration file, the
`OPTOUT_LICENSE_REPORTING`
 value overrides the configuration.

</Note>

Set the following environment variable.

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

Now, restart your [Vault servers](/vault/docs/commands/server) from the shell
where you set the environment variable.

You will find the following entries in the server log.

<CodeBlockConfig hideClipboard>

```
[INFO]  core: automated reporting disabled via environment variable: env=OPTOUT_LICENSE_REPORTING
[INFO]  core: opting out of automated reporting
[DEBUG] activity: there is no reporting agent configured, skipping counts reporting
```

</CodeBlockConfig>

Check your product logs roughly 24 hours after opting out to make sure that the system isnt trying to send reports.

If your configuration file and environment variable differ, the environment variable setting will take precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:

- `payload_version` - The version of this payload schema
- `license_id` - The license ID for this product
- `product` - The product that this contribution is for
- `product_version` - The product version this contribution is for
- `export_timestamp`- The date and time for this contribution
- `snapshots` - An array of snapshot details. A snapshot is a structure that represents a single data collection
  - `snapshot_version` - The version of the snapshot package that produced this snapshot
  - `snapshot_id` - A unique identifier for this particular snapshot
  - `process_id` - An identifier for the system that produced this snapshot
  - `timestamp` - The date and time for this snapshot
  - `schema_version` - The version of the schema associated with this snapshot
  - `service` - The service that produced this snapshot (likely to be product name)
  - `metrics` - A map of representations of snapshot metrics contained within this snapshot
    - `key` - The key name associated with this metric
    - `kind` - The kind of metric (feature, counter, sum, or mean)
    - `mode` - The mode of operation associated with this metric (write or collect)
    - `labels` - The labels associated with each collected metric
      - `entity` - The sum of tokens generated for a unique client identifier
      - `nonentity` - The sum of tokens without an entity attached
- `metadata` - Optional product-specific metadata
  - `billing_start` - The billing start date associated with the reporting cluster (license start date if not configured)
  - `cluster_id` - The cluster UUID as shown by `vault status` on the reporting cluster

<CodeBlockConfig hideClipboard>

```json
{
 "payload_version": "1",
 "license_id": "97afe7b4-b9c8-bf19-bf35-b89b5cc0efea",
 "product": "vault",
```

```
 "product_version": "1.14.0-rc1+ent",
 "export_timestamp": "2023-06-01T11:39:00.76643-04:00",
 "snapshots": [
  {
   "snapshot_version": 1,
   "snapshot_id": "0001J7HEWM1PEHPMF5YZT8EV65",
   "process_id":
"01H1VSQMNYAP77R566F1Y03GE6",
   "timestamp": "2023-06-01T11:39:00.766099-04:00",
   "schema_version": "1.0.0",
   "service": "vault",
   "metrics": {
    "clientcount.current_month_estimate": {
     "key": "clientcount.current_month_estimate",
     "kind": "sum",
     "mode": "write",
     "labels": {
      "type": {
       "entity": 20,
       "nonentity": 11
      }
     }
    },
    "clientcount.previous_month_complete": {
     "key": "clientcount.previous_month_complete",
     "kind": "sum",
     "mode": "write",
     "labels": {
      "type": {
       "entity": 10,
       "nonentity": 11
      }
     }
    }
   }
  }
 ],
 "metadata": {
  "vault": {
   "billing_start": "2023-03-01T00:00:00Z",
   "cluster_id": "a8d95acc-ec0a-6087-d7f6-4f054ab2e7fd"
  }
 }
}
```

</CodeBlockConfig>

Pre-1.9 counts

When upgrading Vault from
 1.8 (or earlier) to 1.9 (or later), utilization reporting will only include the [non-entity tokens](/vault/docs/concepts/client-count#non-entity-tokens) that are used after the upgrade.

Starting in Vault 1.9, the activity log records and de-duplicates non-entity tokens by using the namespace and token's policies to generate a unique identifier. Because Vault did not create identifiers for these tokens before 1.9, the activity log cannot know whether this token has been seen pre-1.9. To prevent inaccurate and inflated counts, the activity log will ignore any counts of non-entity tokens that were created before the upgrade and only the non-entity tokens from versions 1.9 and later will be counted.

See the client count [overview](/vault/docs/concepts/client-count) and [FAQ](/vault/docs/concepts/client-count/faq) for more information.
---
layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.

License FAQ

This FAQ section is for license changes and updates introduced for Vault Enterprise.
- [Q: How do the license termination changes affect upgrades?](#q-how-do-the-license-termination-changes-affect-upgrades)
- [Q: What impact on upgrades do the license termination behavior changes pose?](#q-what-impact-on-upgrades-do-the-license-termination-behavior-changes-pose)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)
- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
-
 [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-

their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
-
[Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-11-or-later-auto-loaded-license-mandatory-to-a-pre-vault-1-11-auto-loading-not-mandatory-stored-license-supported)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
- [Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?](#q-what-are-the-steps-to-upgrade-from-one-autoloaded-license-to-another-autoloaded-license)
- [Q: What are the Vault ADP module licensing changes introduced in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)
-
[Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)
- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-customers-based-on-these-adp-module-licensing-changes)

Q: what is the product behavior change introduced by the licensing changes?

Per the [feature deprecation plans](/vault/docs/deprecation), Vault will no longer support licenses in storage. An [auto-loaded license](/vault/docs/enterprise/license/autoloading) must be used instead. If you are using stored licenses, you must migrate to auto-loaded licenses prior to upgrading to Vault 1.11

Vault 1.12 will also introduce different termination behavior for evaluation licenses versus non-evaluation licenses. An evaluation license will include a 30-day trial period after which a running
Vault server will terminate. Vault servers using a non-evaluation license will not terminate.

Q: how do the license termination changes affect upgrades?
Vault 1.12 will introduce changes to the license termination behavior. Upgrades when using expired licenses will now be limited.
Vault will not startup if the build date of the binary is _after_ the expiration date of a license. License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded License](/vault/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command.
The build date of a binary can also be found using the [vault version](/vault/docs/commands/version#version) command.

A user can expect the following to occur based on the following scenarios:

Evaluation or non-evaluation license is valid:
Vault will start normally

**Evaluation or non-evaluation license is expired, binary build date _before_ license expiry
date:**
Vault will start normally

Evaluation or non-evaluation license is expired, binary build date _after_ license expiry date:
Vault will not start

Evaluation license is terminated:
Vault will not start independent of the binary's build date

Non-evaluation license is terminated, binary build date _before_ license expiry date:
Vault will start normally

Non-evaluation license is terminated, binary build date _after_ license expiry date:
Vault will not start

The Vault support team can issue you a temporary evaluation license to allow for security upgrades if your license has expired.

Q: will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

Q: do these license changes impact all Vault customers/licenses?

Customer/licenses	Impacted?
ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))	Yes
Business-Source (BSL)	No

Q: what is the product behavior change introduced by the licensing changes?

With Vault 1.11, the use of an [auto-loaded license](/vault/docs/enterprise/license/autoloading) is required for Vault to start successfully.

Q: how will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.11. The grace period, defined as the time between license expiration and license termination, is one day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses.
Customers must provide a
valid license before the grace period expires. This license is required to be [auto-loaded](/vault/docs/enterprise/license/autoloading). When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to provide one, and this license will need to be auto-loaded.

Vault 1.12 changes the license expiration and termination behavior. Evaluation licenses include a 30-day trial period after which a running Vault server will terminate. Non-evaluation licenses, however, will no longer terminate. When a non-evaluation license expires, Vault will continue to function but upgrades will be limited. The build date of the upgrade binary must be before the expiration date of the license.

Vault will not start when attempting to use an expired license and binary with a build date _after_ the license expiration date. Attempting to [reload](/vault/api-docs/system/config-reload#reload-license-file)
an expired license will result in an error if the build date of the running Vault server is _after_ the license expiration date.

License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded License](/vault/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command. The build date of a binary can also be found using the [vault version](/vault/docs/commands/version#version) command.

Q: what is the impact on evaluation licenses due to this change?

As of Vault 1.8, any Vault cluster deployed must have a valid [auto-loaded](/vault/docs/enterprise/license/autoloading) license.

Vault 1.12 introduces [expiration and termination behavior changes](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates) for non-evaluation licenses. Evaluation licenses will continue to have a 1-day grace period upon license
expiry after which they will terminate. Vault will seal itself and shutdown once an evaluation license terminates.

Q: are there any changes to existing methods for manual license loading (API or CLI)?

The [`/sys/license`](/vault/api-docs/v1.10.x/system/license#install-license) and [`/sys/license/signed`](/vault/api-docs/v1.10.x/system/license#read-signed-license) endpoints have been removed as of Vault 1.11. With that said, it is no longer possible to provide a license via the `/sys/license` endpoint. License [auto-loading](/vault/docs/enterprise/license/autoloading) must be used instead.
The [`/sys/config/reload/license`](/vault/api-docs/system/config-reload#reload-license-file) endpoint can be used to reload an auto-loaded license provided as a path via an environment variable or configuration.

Q: is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration,
Vault will seal and will require a valid license to unseal and function properly.

Q: are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

Q: will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .
Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

Starting Vault 1.11, when customers deploy new Vault clusters, or upgrade existing Vault clusters, a valid [auto-loaded](/vault/docs/enterprise/license/autoloading) license must exist for the upgrade to be successful.

###
Q: what scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.11 or later, a valid license must exist to successfully deploy. This valid license must be on-disk ([auto-loaded](/vault/docs/enterprise/license/autoloading)).

- **Eventual Migration**: Vault 1.11 removes support for in-storage licenses. Migrating to an auto-loaded license is required for Vault to start successfully using version 1.11 or greater. Pre-existing license storage entries will be automatically removed from storage upon startup.

Q: what is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault cluster using a stored license is planned to be upgraded to Vault 1.11 or greater, the operator must migrate to using an auto-loaded license. The [`vault license get -signed`](/vault/docs/v1.10.x/commands/license/get) command
(or underlying [`/sys/license/signed`](/vault/api-docs/v1.10.x/system/license#read-signed-license) endpoint) can be used to retrieve the license from storage in a running cluster.
It is not necessary to remove the stored license entry. That will occur automatically upon startup in Vault 1.11 or greater. Prior to completing the [recommended upgrade steps](/vault/docs/upgrading), perform the following to ensure your license is properly configured:

1. Use the command `vault license get -signed` to retrieve the license from storage of your running cluster.
2. Put the license on disk
3. Configure license auto-loading by specifying the [`license_path`](/vault/docs/configuration#license_path) config option or setting the [`VAULT_LICENSE`](/vault/docs/commands#vault_license) or [`VAULT_LICENSE_PATH`](/vault/docs/commands#vault_license_path) environment variable.

Q: what is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to
a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.11 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.11 version. Please refer to the [upgrade procedures](/vault/tutorials/standard-procedures/sop-upgrade) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.11 enterprise binary version they wish to roll back, and bring up the clusters.

Q: is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, as we have announced in [Vault feature deprecations and plans](/vault/docs/deprecation) we are removing support for licenses in storage with

Vault 1.11. This implies licensing endpoints that deal with licenses in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have [auto-loaded](/vault/docs/enterprise/license/autoloading) licenses to upgrade to 1.11(+) successfully.

Q: what are the steps to upgrade from one autoloaded license to another autoloaded license?

Follow these steps to migrate from one autoloaded license to another autoloaded license.

1. Use the [`vault license inspect`](/vault/docs/commands/license/inspect) command to compare the new license against the output of the [`vault license get`](/vault/docs/commands/license/get) command. This is to ensure that you have the correct license.
1. Backup the old license file in a safe location.
1. Replace the old license file on each Vault server with the new one.
1. Invoke the [reload command](/vault/api-docs/system/config-reload#reload-license-file) on each individual Vault server, starting
with the standbys and doing the leader last. Invoking in this manner reduces possible disruptions if something was performed incorrectly with the above steps. You can either use the [reload command](/vault/api-docs/system/config-reload#reload-license-file) or send a SIGHUP.
1. On each node, ensure that the new license is in use by using the [`vault license get`](/vault/docs/commands/license/get) command and/or checking the logs.

ADP licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

Q: what are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

ADP-KM includes:

- [Key Management Secrets Engine (KMSE)](/vault/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/vault/docs/secrets/kmip)
- [MSSQL Transparent Data Encryption (TDE)](https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault)

ADP-Transform
includes:

- [Transform Secrets Engine (TSE)](/vault/docs/secrets/transform)

Q: how can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

ADP-KM includes:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without

the purchase of a Vault Enterprise Standard license.
- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in Vault Community Edition and ADP-KM (KMSE and KMIP).

ADP-Transform includes:

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.
-
The ADP-Transform SKU can be applied as an add-on. This workflow is similar to the consolidated ADP SKU.

Q: what is the impact to customers based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **New customers** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.
- **Existing customers** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).
---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.

License autoloading

@include 'alerts/enterprise-and-hcp-plus.mdx'

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries
that contained embedded licenses, or via a license written into Vault storage
using the [POST sys/license API](/vault/api-docs/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading. New clusters are
required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order
of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which
takes precedence over `license_path` in config.)

- [VAULT_LICENSE environment variable](/vault/docs/commands#vault_license)
- [VAULT_LICENSE_PATH environment variable](/vault/docs/commands#vault_license_path)
- [license_path
in config](/vault/docs/configuration#license_path)

Nodes within a cluster should be consistently licensed. All nodes in a cluster
should use autoloading, or none should. If autoloading is used, all nodes should
use the same license string. Warnings will be written to the log when there
are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence
of a stored license in conjunction with an autoloaded license will also result in
logged warnings, which may require a service restart to clear.
Copyright (c) HashiCorp, Inc.
SPDX-License-Identifier: BUSL-1.1

variable "file_name" {}

output "license" {
 value = file(var.file_name)
}
---
layout: docs
page_title: license inspect - Command
description: |-
 The "license inspect" command describes the contents of a signed license string.
---

license inspect

The `license inspect` command describes the contents of a signed license string.

Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-
432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-
17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-
policy","advanced-data-protection"]},"features":["HSM","Performance
```

Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Describe license at given path:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Usage

The following flags are available in addition to the [standard set of flags](/vault/docs/commands) included on all commands.

Command options

- `-installation-id` `(string: "")` - Installation ID to validate the license against

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.license-banner-wrapper {
 width: 100%;
 max-width: 1344px;
 margin: $spacing-l auto 0;
```
```

```
 padding: 0 1.5rem;
}
```
Enterprise licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the proper license. As the previous builds were both not working and causing confusion, we have removed the binaries.

```
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package license

// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```
vault.core.license.expiration_time_epoch ((#vault-core-license-expiration_time_epoch))

Metric type	Value	Description
gauge	timestamp	Epoch time (seconds since 1970-01-01) at which the license will expire

```
---
layout: docs
page_title: license - Command
description: |-
 The "license" command groups subcommands for interacting with Vault licenses.
---

# license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/vault/docs/enterprise/license)

## Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key                    Value
---                    -----
expiration_time        2022-05-17T23:59:59.999Z
```
```

features [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id 060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count 9999
start_time 2021-05-17T00:00:00Z
```

Inspect a license string:

```shell-session
$
 vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License
 is valid

```

Usage

```text
Usage: vault license <subcommand> [options] [args]

 # ...

Subcommands:
  get      Query Vault's license
  inspect  View the contents of a license string
```

For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.
```

1.38 c-ares 1.34.3-r0

1.38.1 Available under license :

AUTOCONF CONFIGURE SCRIPT EXCEPTION

Version 3.0, 18 August 2009

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1.39 ncurses 6.5_p20241006-r3

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1.42 apk-tools 2.14.6-r2

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1.45 musl-utils 1.2.5-r8

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1.46 libncursesw 6.5_p20241006-r3

1.46.1 Available under license :

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ncurses 6.5 - patch 20241006 - Thomas E. Dickey
#

#
Ncurses 6.5 is at
https://invisible-island.net/archives/ncurses/
https://invisible-mirror.net/archives/ncurses/
https://ftp.gnu.org/gnu/ncurses/
#
Patches for ncurses 6.5 can be found at
https://invisible-island.net/archives/ncurses/6.5
https://invisible-mirror.net/archives/ncurses/6.5
#
---
https://invisible-island.net/archives/ncurses/6.5/ncurses-6.5-20241006.patch.gz

```
# patch by Thomas E. Dickey <dickey@invisible-island.net>
# created  Sun Oct  6 23:44:01 UTC 2024
# ----------------------------------------------------------------------------
# NEWS                          |    6 +++
# VERSION                       |    2 -
# c++/cursesf.cc                |    6 +--
# c++/cursesf.h
                  |    6 +--
# c++/cursesm.cc                |    6 +--
# c++/cursesm.h                 |    6 +--
# c++/cursesp.cc                |    6 +--
# c++/cursespad.cc              |    6 +--
# c++/cursslk.cc                |   12 +++----
# c++/cursslk.h                 |    6 +--
# dist.mk                       |    4 +-
# misc/terminfo.src             |   23 ++++++++++--
# ncurses/base/lib_screen.c     |    4 +-
# ncurses/base/new_pair.c       |    4 +-
# ncurses/curses.priv.h         |    4 +-
# ncurses/new_pair.h            |    4 +-
# ncurses/tinfo/trim_sgr0.c     |    7 ++--
# ncurses/tty/lib_twait.c       |    6 +--
# package/debian-mingw/changelog   |    4 +-
# package/debian-mingw64/changelog |    4 +-
# package/debian/changelog      |    4 +-
# package/mingw-ncurses.nsi     |    4 +-
# package/mingw-ncurses.spec    |    2 -
# package/ncurses.spec          |    2 -
# package/ncursest.spec         |
   2 -
# test/blue.c                   |   10 +++---
# test/bs.c                     |    8 ++--
# test/cardfile.c               |   12 +++----
# test/chgat.c                  |    6 +--
# test/clip_printw.c            |    8 ++--
# test/color_name.h             |    6 +--
# test/demo_defkey.c            |    4 +-
# test/demo_forms.c             |   22 ++++++-------
# test/demo_menus.c             |   32 ++++++++++---------
# test/demo_new_pair.c          |    4 +-
# test/demo_panels.c            |   16 ++++-----
# test/demo_termcap.c           |   18 +++++-----
# test/demo_terminfo.c          |   18 +++++-----
# test/dots.c                   |    6 +--
# test/dots_mvcur.c             |    6 +--
# test/dots_termcap.c           |    8 ++--
# test/dup_field.c              |   14 ++++----
# test/filter.c                 |    6 +--
```

```
# test/form_driver_w.c           |   6 +--
# test/gdc.c                     |  10 ++++---
# test/inch_wide.c
                |   6 +--
# test/inchs.c                   |   6 +--
# test/ins_wide.c                |   6 +--
# test/insdelln.c                |   8 ++--
# test/inserts.c                 |   6 +--
# test/knight.c                  |   7 ++--
# test/list_keys.c               |   8 ++--
# test/move_field.c              |  18 +++++-----
# test/movewindow.c              |  16 ++++-----
# test/ncurses.c                 |  61 ++++++++++++++++++++----------------
# test/padview.c                 |  12 +++++----
# test/parse_rgb.h               |   6 +--
# test/picsmap.c                 |  14 ++++++----
# test/popup_msg.c               |   8 ++--
# test/popup_msg.h               |   6 +--
# test/railroad.c                |   6 +--
# test/rain.c                    |  20 ++++++------
# test/redraw.c                  |   6 +--
# test/savescreen.c              |  14 ++++++----
# test/tclock.c                  |   4 +-
# test/test.priv.h
                |  10 +++++---
# test/test_add_wchstr.c         |   6 +--
# test/test_addchstr.c           |   6 +--
# test/test_addstr.c             |   6 +--
# test/test_addwstr.c            |   6 +--
# test/test_endwin.c             |   6 +--
# test/test_get_wstr.c           |   8 ++--
# test/test_getstr.c             |   8 ++--
# test/test_instr.c              |   8 ++--
# test/test_inwstr.c             |   8 ++--
# test/test_mouse.c              |   4 +-
# test/test_opaque.c             |   8 ++--
# test/test_sgr.c                |  26 +++++++--------
# test/test_tparm.c              |  12 +++++----
# test/test_vidputs.c            |   6 +--
# test/testcurs.c                |   8 ++--
# test/testscanw.c               |   6 +--
# test/view.c                    |  21 +++++-------
# 83 files changed, 392 insertions(+), 369 deletions(-)
# ------------------------------------------------------------------------------
Index: NEWS
Prereq:
 1.4185
--- ncurses-6.5-20240928+/NEWS 2024-09-28 20:27:44.000000000 +0000
```

```
+++ ncurses-6.5-20241006/NEWS 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
-- sale, use or other dealings in this Software without prior written        --
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--------------------------------------------------------------------------------
--- $Id: NEWS,v 1.4185 2024/09/28 20:27:44 tom Exp $
+-- $Id: NEWS,v 1.4188 2024/10/06 08:53:45 tom Exp $
--------------------------------------------------------------------------------

This is a log of changes that ncurses has gone through since Zeyd started
@@ -46,6 +46,10 @@
Changes through 1.9.9e did not credit all contributions;
it is not possible to add this information.

+20241006
+ + fixes for compiler warnings/cppcheck.
+ + use xterm+alt+title in wezterm -TD
+
20240928
 + improve error-message from infocmp when a terminal entry cannot be
   opened (patch by Branden Robinson).
Index:
 VERSION
--- ncurses-6.5-20240928+/VERSION 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/VERSION 2024-10-06 08:53:45.000000000 +0000
@@ -1 +1 @@
-5:0:10 6.5 20240928
+5:0:10 6.5 20241006
Index: c++/cursesf.cc
Prereq:  1.26
--- ncurses-6.5-20240928+/c++/cursesf.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
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/****************************************************************************
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 *                                                                          *
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@@ -36,7 +36,7 @@
#include "cursesf.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesf.cc,v 1.26 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesf.cc,v 1.27 2024/10/05 22:47:12 tom Exp $")

NCursesFormField::~NCursesFormField () THROWS(NCursesException)
```

```
{
@@ -76,7 +76,7 @@

void NCursesForm::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+  const NCursesApplication* S = NCursesApplication::getApplication();

  int n = count();
  if (n > 0) {
Index: c++/cursesf.h
Prereq:  1.39
--- ncurses-6.5-20240928+/c++/cursesf.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesf.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * This makes emacs happy -*-Mode: C++;-*-
// vile:cppmode
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@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesf.h,v 1.39 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesf.h,v 1.40 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESF_H_incl
#define NCURSES_CURSESF_H_incl 1
@@ -384,7 +384,7 @@
  }

  inline void *get_user() {
-    UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
+    const UserHook* uptr = reinterpret_cast<UserHook*>(::form_userptr (form));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==form);
    return uptr->m_user;
  }
Index: c++/cursesm.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesm.cc 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.cc 2024-10-05
 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
```

```
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@@ -36,7 +36,7 @@
#include "cursesm.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursesm.cc,v 1.27 2021/04/17 18:11:08 tom Exp $")
+MODULE_ID("$Id: cursesm.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesMenuItem::~NCursesMenuItem() THROWS(NCursesException)
{
@@ -168,7 +168,7 @@
void
NCursesMenu::setDefaultAttributes()
{
-  NCursesApplication* S = NCursesApplication::getApplication();
+
  const NCursesApplication* S = NCursesApplication::getApplication();
  if (S) {
    ::set_menu_fore(menu, S->foregrounds());
    ::set_menu_back(menu, S->backgrounds());
Index: c++/cursesm.h
Prereq:  1.35
--- ncurses-6.5-20240928+/c++/cursesm.h 2022-08-20 20:52:15.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesm.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
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@@ -32,7 +32,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursesm.h,v 1.35 2022/08/20 20:52:15 tom Exp $
+// $Id: cursesm.h,v 1.36 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSESM_H_incl
#define NCURSES_CURSESM_H_incl 1
@@ -245,7 +245,7 @@
```

```
  }

  inline void *get_user() {
-    UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
+    const UserHook* uptr = STATIC_CAST(UserHook*)(::menu_userptr (menu));
    assert (uptr != 0 && uptr->m_back==this && uptr->m_owner==menu);
    return uptr->m_user;
  }
Index: c++/cursesp.cc
Prereq:  1.27
--- ncurses-6.5-20240928+/c++/cursesp.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursesp.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
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  *                                                                          *
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@@ -35,7 +35,7 @@
#include "internal.h"
#include "cursesp.h"

-MODULE_ID("$Id: cursesp.cc,v 1.27 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursesp.cc,v 1.28 2024/10/05 22:47:12 tom Exp $")

NCursesPanel* NCursesPanel::dummy = static_cast<NCursesPanel*>(0);

@@ -64,7 +64,7 @@
void
NCursesPanel::redraw()
{
-  PANEL *pan;
+  const PANEL *pan;

  pan = ::panel_above(NULL);
  while (pan) {
Index: c++/cursespad.cc
Prereq:  1.18
--- ncurses-6.5-20240928+/c++/cursespad.cc 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursespad.cc 2024-10-05 22:47:12.000000000 +0000
@@ -1,6 +1,6 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
/****************************************************************************
-
```

```
 * Copyright 2020 Thomas E. Dickey                                      *
+ * Copyright 2020,2024 Thomas E. Dickey                                 *
 * Copyright 1999-2012,2013 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -36,7 +36,7 @@

#include <cursesw.h>

-MODULE_ID("$Id: cursespad.cc,v 1.18 2020/02/02 23:34:34 tom Exp $")
+MODULE_ID("$Id: cursespad.cc,v 1.19 2024/10/05 22:47:12 tom Exp $")

NCursesPad::NCursesPad(int nlines, int ncols)
  : NCursesWindow(),
@@ -221,7 +221,7 @@
void NCursesFramedPad::OnOperation(int pad_req)
{
  (void) pad_req;
-  NCursesWindow* W = Win();
+  const NCursesWindow* W = Win();
  NCursesWindow* W2 = getWindow();

  if ((static_cast<NCursesWindow*>(0) != W) && (static_cast<NCursesWindow*>(0) != W2)) {
Index: c++/cursslk.cc
Prereq:
  1.22
--- ncurses-6.5-20240928+/c++/cursslk.cc 2024-06-15 21:07:30.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.cc 2024-10-05 19:36:22.000000000 +0000
@@ -35,10 +35,10 @@
#include "internal.h"
#include "cursesapp.h"

-MODULE_ID("$Id: cursslk.cc,v 1.22 2024/06/15 21:07:30 tom Exp $")
+MODULE_ID("$Id: cursslk.cc,v 1.23 2024/10/05 19:36:22 tom Exp $")

Soft_Label_Key_Set::Soft_Label_Key&
-  Soft_Label_Key_Set::Soft_Label_Key::operator=(char *text)
+  Soft_Label_Key_Set::Soft_Label_Key::operator=(const char *text)
{
  delete[] label;
  size_t need = 1 + ::strlen(text);
@@ -111,11 +111,11 @@

void Soft_Label_Key_Set::activate_label(int i, bool bf) {
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
```

```
   b_attrInit = TRUE;
  }
-  Soft_Label_Key& K = (*this)[i];
+  const Soft_Label_Key& K = (*this)[i];
  if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
    Error("slk_set");
  noutrefresh();
@@ -124,12 +124,12 @@
void Soft_Label_Key_Set::activate_labels(bool bf)
{
  if (!b_attrInit) {
-    NCursesApplication* A = NCursesApplication::getApplication();
+    const NCursesApplication* A = NCursesApplication::getApplication();
    if (A) attrset(A->labels());
    b_attrInit = TRUE;
  }
  for(int i=1; i <= num_labels; i++) {
-    Soft_Label_Key& K = (*this)[i];
+    const Soft_Label_Key& K = (*this)[i];
    if (ERR==::slk_set(K.num,bf?K.label:"",K.format))
      Error("slk_set");
  }
Index: c++/cursslk.h
Prereq:  1.19
--- ncurses-6.5-20240928+/c++/cursslk.h 2021-04-17 18:11:08.000000000 +0000
+++ ncurses-6.5-20241006/c++/cursslk.h 2024-10-05 22:47:12.000000000 +0000
@@ -1,7 +1,7 @@
// * this is for making emacs happy: -*-Mode: C++;-*-
// vile:cppmode
/****************************************************************************
- * Copyright 2019-2020,2021 Thomas E. Dickey                                *
+ * Copyright 2019-2021,2024 Thomas E. Dickey                                *
 * Copyright 1998-2003,2005 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -33,7 +33,7 @@
 *   Author: Juergen Pfeifer, 1997                                          *
 ****************************************************************************/

-// $Id: cursslk.h,v 1.19 2021/04/17 18:11:08 tom Exp $
+// $Id: cursslk.h,v 1.20 2024/10/05 22:47:12 tom Exp $

#ifndef NCURSES_CURSSLK_H_incl
#define NCURSES_CURSSLK_H_incl
@@ -62,7 +62,7 @@

  public:
```

```
   // Set the text of the Label
-    Soft_Label_Key& operator=(char *text);
+    Soft_Label_Key& operator=(const char *text);

   // Set the Justification of the Label
   Soft_Label_Key& operator=(Justification just) {
Index: dist.mk
Prereq:  1.1634
--- ncurses-6.5-20240928+/dist.mk 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/dist.mk 2024-10-06 08:53:45.000000000 +0000
@@ -26,7 +26,7 @@
# use or other dealings in this Software without prior written               #
# authorization.                                                             #
##############################################################################
-# $Id: dist.mk,v 1.1634 2024/09/28 09:53:21 tom Exp $
+# $Id: dist.mk,v 1.1636 2024/10/06 08:53:45 tom Exp $
# Makefile for creating ncurses distributions.
#
# This only needs to be used directly as a makefile by developers, but
@@ -38,7 +38,7 @@
# These define the major/minor/patch versions of ncurses.
NCURSES_MAJOR = 6
NCURSES_MINOR = 5
-NCURSES_PATCH = 20240928
+NCURSES_PATCH = 20241006

# We don't append the patch to the version, since this only applies to releases
VERSION = $(NCURSES_MAJOR).$(NCURSES_MINOR)
Index: misc/terminfo.src
--- ncurses-6.5-20240928+/misc/terminfo.src 2024-09-07 16:23:31.000000000
 +0000
+++ ncurses-6.5-20241006/misc/terminfo.src 2024-10-05 16:04:17.000000000 +0000
@@ -6,8 +6,8 @@
# Report bugs and new terminal descriptions to
# bug-ncurses@gnu.org
#
-# $Revision: 1.1150 $
-# $Date: 2024/09/07 16:23:31 $
+# $Revision: 1.1153 $
+# $Date: 2024/10/05 16:04:17 $
#
# The original header is preserved below for reference.  It is noted that there
# is a "newer" version which differs in some cosmetic details (but actually
@@ -8060,6 +8060,17 @@
# "wezterm is a terminal emulator with support for modern features
#  such as fonts with ligatures, hyperlinks, tabs and multiple windows."
#
```

```
+# The documentation bears mention.  It refers to the "ANSI" standard and
+#  https://wezfurlong.org/wezterm/what-is-a-terminal.html#ansi-and-ecma-48
+# X3.64 (withdrawn long ago).  A related website
+# https://github.com/wez/ecma48
+# states that ECMA-48 was issued in 1979 and not revised since.  Actually that
+# was the second revision; the fifth revision in 1991 is current.  The source
+#
 code refers to the second revision in a half-dozen places.  Further, there
+# are three times as many references to Wikipedia as to xterm's documentation.
+# The git commit comments in several instances hint at an incomplete reading
+# of the relevant standards.
+#
# wezterm-20240203-110809-5046fc22 tested with MacOS
# General:
# + initial screensize is now 80x24
@@ -8094,7 +8105,7 @@
# + poor (doesn't copy anyone, most of the results are wrong)
# vttest:
# + DA is VT5xx with sixel, selective erase, user windows, color
-# + DA2 is VT220 version 277
+# + DA2 is VT220 version 277, perhaps a reference to xterm #277
# + only the VT100 character set works, contrary to DA/DA2.
# + no NRCS, either
# + double-sized character work, with some debris
@@ -8136,7 +8147,7 @@
 use=ansi+rep, use=ansi+sgrdim, use=bracketed+paste,
 use=ecma+index, use=ecma+italics, use=ecma+strikeout,
 use=report+version, use=vt220+cvis,
- use=xterm+256color2, use=xterm+alt1049,
+ use=xterm+256color2,
 use=xterm+alt+title,
 use=xterm+focus, use=xterm+pcc2, use=xterm+pce2,
 use=xterm+pcf2, use=xterm+sl-alt, use=xterm+sm+1006,
 use=xterm+tmux,
@@ -27644,4 +27655,8 @@
# 2024-09-07
# + update comments -TD
#
+# 2024-10-05
+# + use xterm+alt+title in wezterm -TD
+# + update comments -TD
+#
######## SHANTIH!  SHANTIH!  SHANTIH!
Index: ncurses/base/lib_screen.c
Prereq:  1.108
--- ncurses-6.5-20240928+/ncurses/base/lib_screen.c 2024-09-22 20:20:36.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/lib_screen.c 2024-10-05 20:47:44.000000000 +0000
@@ -42,7 +42,7 @@
```

```
#define CUR SP_TERMTYPE
#endif

-MODULE_ID("$Id: lib_screen.c,v 1.108 2024/09/22 20:20:36 tom Exp $")
+MODULE_ID("$Id: lib_screen.c,v 1.109 2024/10/05 20:47:44 tom Exp $")

#define MAX_SIZE 0x3fff  /* 16k is big enough for a window or pad */

@@ -943,7 +943,7 @@
 * Replace a window covering the whole screen, i.e., newscr or curscr.
 */
static WINDOW *
-replace_window(WINDOW *target, FILE *source)
+replace_window(const
 WINDOW *target, FILE *source)
{
   WINDOW *result = getwin(source);
#if NCURSES_EXT_FUNCS
Index: ncurses/base/new_pair.c
Prereq:  1.24
--- ncurses-6.5-20240928+/ncurses/base/new_pair.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/base/new_pair.c 2024-10-05 20:51:29.000000000 +0000
@@ -61,7 +61,7 @@

#endif

-MODULE_ID("$Id: new_pair.c,v 1.24 2024/07/27 19:22:23 tom Exp $")
+MODULE_ID("$Id: new_pair.c,v 1.25 2024/10/05 20:51:29 tom Exp $")

#if NCURSES_EXT_COLORS

@@ -193,7 +193,7 @@
 * pair table.
 */
NCURSES_EXPORT(void)
-_nc_reset_color_pair(SCREEN *sp, int pair, colorpair_t * next)
+_nc_reset_color_pair(SCREEN *sp, int pair, const colorpair_t * next)
{
   colorpair_t *last;

Index: ncurses/curses.priv.h
Prereq:  1.691
--- ncurses-6.5-20240928+/ncurses/curses.priv.h 2024-09-28 15:35:01.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/curses.priv.h 2024-10-05 21:01:50.000000000 +0000
@@ -35,7 +35,7 @@
 ******************************************************************************/

/*
```

```
- * $Id: curses.priv.h,v 1.691 2024/09/28 15:35:01 tom Exp $
+ * $Id: curses.priv.h,v 1.692 2024/10/05 21:01:50 tom Exp $
 *
 * curses.priv.h
 *
@@ -2170,7 +2170,7 @@
extern NCURSES_EXPORT(int) _nc_read_termcap_entry (const char *const, TERMTYPE2 *const);
extern NCURSES_EXPORT(int) _nc_setup_tinfo(const char *, TERMTYPE2 *);
extern NCURSES_EXPORT(int) _nc_setupscreen (int, int, FILE *, int, int);
-extern NCURSES_EXPORT(int) _nc_timed_wait (SCREEN *, int, int, int * EVENTLIST_2nd(_nc_eventlist *));
+extern NCURSES_EXPORT(int) _nc_timed_wait (const SCREEN *, int, int, int *
EVENTLIST_2nd(_nc_eventlist *));
extern NCURSES_EXPORT(int) _nc_trans_string (char *, const char *);
extern NCURSES_EXPORT(void) _nc_init_termtype (TERMTYPE2 *const);
extern NCURSES_EXPORT(void) _nc_do_color (int, int, int, NCURSES_OUTC);
Index: ncurses/new_pair.h
Prereq:  1.14
--- ncurses-6.5-20240928+/ncurses/new_pair.h 2024-05-25 23:10:33.000000000 +0000
+++
 ncurses-6.5-20241006/ncurses/new_pair.h 2024-10-05 20:57:47.000000000 +0000
@@ -34,7 +34,7 @@
/*
 * Common type definitions and macros for new_pair.c, lib_color.c
 *
- * $Id: new_pair.h,v 1.14 2024/05/25 23:10:33 tom Exp $
+ * $Id: new_pair.h,v 1.15 2024/10/05 20:57:47 tom Exp $
 */

#ifndef NEW_PAIR_H
@@ -116,7 +116,7 @@
#if NCURSES_EXT_FUNCS && NCURSES_EXT_COLORS
extern NCURSES_EXPORT(void)     _nc_copy_pairs(SCREEN*, colorpair_t*, colorpair_t*, int);
extern NCURSES_EXPORT(void)     _nc_free_ordered_pairs(SCREEN*);
-extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, colorpair_t*);
+extern NCURSES_EXPORT(void)     _nc_reset_color_pair(SCREEN*, int, const colorpair_t*);
extern NCURSES_EXPORT(void)     _nc_set_color_pair(SCREEN*, int, int);
#else
#define _nc_free_ordered_pairs(sp) /* nothing */
Index: ncurses/tinfo/trim_sgr0.c
Prereq:  1.23
--- ncurses-6.5-20240928+/ncurses/tinfo/trim_sgr0.c 2024-07-27 19:22:23.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tinfo/trim_sgr0.c 2024-10-05
 20:53:48.000000000 +0000
@@ -37,7 +37,7 @@

#include <tic.h>

-MODULE_ID("$Id: trim_sgr0.c,v 1.23 2024/07/27 19:22:23 tom Exp $")
```

```
+MODULE_ID("$Id: trim_sgr0.c,v 1.24 2024/10/05 20:53:48 tom Exp $")

#undef CUR
#define CUR tp->
@@ -237,12 +237,10 @@

    if (PRESENT(exit_attribute_mode)
 && PRESENT(set_attributes)) {
- bool found = FALSE;
 char *on = set_attribute_9(tp, 1);
 char *off = set_attribute_9(tp, 0);
 char *end = strdup(exit_attribute_mode);
 char *tmp;
- size_t i, j, k;

 TR(TRACE_DATABASE, ("checking if we can trim sgr0 based on sgr"));
 TR(TRACE_DATABASE, ("sgr0       %s", _nc_visbuf(end)));
@@ -255,6 +253,9 @@
     FreeIfNeeded(off);
 } else if (similar_sgr(off, end)
     && !similar_sgr(off, on)) {
+    bool found = FALSE;
+    size_t i, j, k;
+
     TR(TRACE_DATABASE, ("adjusting sgr(9:off) : %s", _nc_visbuf(off)));
     result = off;
     /*
Index: ncurses/tty/lib_twait.c
Prereq:  1.81
--- ncurses-6.5-20240928+/ncurses/tty/lib_twait.c 2023-09-16
 16:30:40.000000000 +0000
+++ ncurses-6.5-20241006/ncurses/tty/lib_twait.c 2024-10-05 22:47:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2015,2016 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -76,7 +76,7 @@
#endif
#undef CUR

-MODULE_ID("$Id: lib_twait.c,v 1.81 2023/09/16 16:30:40 tom Exp $")
+MODULE_ID("$Id: lib_twait.c,v 1.82 2024/10/05 22:47:12 tom Exp $")

/*
 * Returns an elapsed time, in milliseconds (if possible).
```

```
@@ -168,7 +168,7 @@
 * descriptors.
 */
NCURSES_EXPORT(int)
-_nc_timed_wait(SCREEN *sp MAYBE_UNUSED,
+_nc_timed_wait(const
 SCREEN *sp MAYBE_UNUSED,
        int mode MAYBE_UNUSED,
        int milliseconds,
        int *timeleft
Index: package/debian-mingw/changelog
--- ncurses-6.5-20240928+/package/debian-mingw/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian-mingw64/changelog
--- ncurses-6.5-20240928+/package/debian-mingw64/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian-mingw64/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td
 (6.5+20241006) unstable; urgency=low

  * latest weekly patch

- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20131005) unstable; urgency=low

Index: package/debian/changelog
--- ncurses-6.5-20240928+/package/debian/changelog 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/debian/changelog 2024-10-06 08:53:45.000000000 +0000
@@ -1,8 +1,8 @@
-ncurses6td (6.5+20240928) unstable; urgency=low
+ncurses6td (6.5+20241006) unstable; urgency=low

  * latest weekly patch
```

```
- -- Thomas E. Dickey <dickey@invisible-island.net>  Sat, 28 Sep 2024 05:53:21 -0400
+ -- Thomas E. Dickey <dickey@invisible-island.net>  Sun, 06 Oct 2024 04:53:45 -0400

ncurses6 (5.9+20120608) unstable; urgency=low

Index: package/mingw-ncurses.nsi
Prereq:  1.669
--- ncurses-6.5-20240928+/package/mingw-ncurses.nsi 2024-09-28 09:53:21.000000000 +0000
+++
 ncurses-6.5-20241006/package/mingw-ncurses.nsi 2024-10-06 08:53:45.000000000 +0000
@@ -1,4 +1,4 @@
-; $Id: mingw-ncurses.nsi,v 1.669 2024/09/28 09:53:21 tom Exp $
+; $Id: mingw-ncurses.nsi,v 1.671 2024/10/06 08:53:45 tom Exp $

; TODO add examples
; TODO bump ABI to 6
@@ -10,7 +10,7 @@
!define VERSION_MAJOR "6"
!define VERSION_MINOR "5"
!define VERSION_YYYY  "2024"
-!define VERSION_MMDD  "0928"
+!define VERSION_MMDD  "1006"
!define VERSION_PATCH ${VERSION_YYYY}${VERSION_MMDD}

!define MY_ABI   "5"
Index: package/mingw-ncurses.spec
--- ncurses-6.5-20240928+/package/mingw-ncurses.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/mingw-ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -3,7 +3,7 @@
Summary: shared libraries for terminal handling
Name: mingw32-ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncurses.spec
--- ncurses-6.5-20240928+/package/ncurses.spec 2024-09-28
 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncurses.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: shared libraries for terminal handling
Name: ncurses6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
```

```
Group: Development/Libraries
URL: https://invisible-island.net/ncurses/
Index: package/ncursest.spec
--- ncurses-6.5-20240928+/package/ncursest.spec 2024-09-28 09:53:21.000000000 +0000
+++ ncurses-6.5-20241006/package/ncursest.spec 2024-10-06 08:53:45.000000000 +0000
@@ -1,7 +1,7 @@
Summary: Curses library with POSIX thread support.
Name: ncursest6
Version: 6.5
-Release: 20240928
+Release: 20241006
License: X11
Group: Development/Libraries
Source: ncurses-%{version}-%{release}.tgz
Index: test/blue.c
Prereq:  1.55
--- ncurses-6.5-20240928+/test/blue.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/blue.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -37,7 +37,7 @@
 ****************************************************************************/

/*
- * $Id: blue.c,v 1.55 2022/12/10 23:31:31 tom Exp $
+ * $Id: blue.c,v 1.56 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -437,7 +437,7 @@
static void
use_pc_display(void)
{
-    char *check = nl_langinfo(CODESET);
+    const char *check = nl_langinfo(CODESET);
    if (!strcmp(check, "UTF-8")) {
#if USE_WIDEC_SUPPORT
 suits = uglyphs;
@@ -448,8 +448,8 @@
     !strcmp(check, "CP437") ||
     !strcmp(check,
```

```
 "IBM850") ||
     !strcmp(check, "CP850")) {
-    char *smacs = tigetstr("smacs");
-    char *smpch = tigetstr("smpch");
+    const char *smacs = tigetstr("smacs");
+    const char *smpch = tigetstr("smpch");
     /*
      * The ncurses library makes this check to decide whether to allow
      * the alternate character set for the (normally) nonprinting codes.
Index: test/bs.c
Prereq:  1.79
--- ncurses-6.5-20240928+/test/bs.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/bs.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -35,7 +35,7 @@
 * v2.0 featuring strict ANSI/POSIX conformance, November 1993.
 * v2.1 with ncurses mouse support, September 1995
 *
- * $Id: bs.c,v 1.79 2023/05/27 20:13:10 tom Exp $
+ * $Id: bs.c,v 1.80 2024/10/05 19:26:24 tom Exp $
 */

#include <test.priv.h>
@@ -147,7 +147,7 @@
   bool placed;  /* has it been placed on the board? */
} ship_t;

-static bool checkplace(int b, ship_t * ss, int vis);
+static bool checkplace(int b, const ship_t * ss, int vis);

#define SHIPIT(name, symbol, length) { name, 0, symbol, length, 0,0, 0, FALSE }

@@ -686,7 +686,7 @@
}

static bool
-checkplace(int b, ship_t * ss, int vis)
+checkplace(int b, const ship_t * ss, int vis)
{
   int l, xend, yend;
```

```
Index: test/cardfile.c
Prereq:  1.51
--- ncurses-6.5-20240928+/test/cardfile.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/cardfile.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1999-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: cardfile.c,v 1.51 2022/12/04 00:40:11 tom Exp $
+ * $Id: cardfile.c,v 1.52 2024/10/05 19:26:24 tom Exp $
 *
 * File format: text beginning in column 1 is a title; other text is content.
 */
@@ -161,7 +161,7 @@
}

static CARD *
-find_card(char *title)
+find_card(const char *title)
{
   CARD *card;

@@ -173,7 +173,7 @@
}

static void
-read_data(char *fname)
+read_data(const char *fname)
{
   FILE *fp;

@@ -341,7 +341,7 @@
}

static FIELD **
-make_fields(CARD * p, int form_high,
- int form_wide)
+make_fields(const CARD * p, int form_high, int form_wide)
{
   FIELD **f = typeCalloc(FIELD *, (size_t) 3);
```

```
@@ -385,7 +385,7 @@
/*******************************************************************************/

static void
-cardfile(char *fname)
+cardfile(const char *fname)
{
   WINDOW *win;
   CARD *p;
Index: test/chgat.c
Prereq:  1.21
--- ncurses-6.5-20240928+/test/chgat.c 2024-06-29 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/chgat.c 2024-10-06 22:35:55.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                       *
 *******************************************************************************/
/*
- * $Id: chgat.c,v 1.21 2024/06/29 17:45:32 tom Exp $
+ * $Id: chgat.c,v 1.23 2024/10/06 22:35:55 tom Exp $
 *
 * test-driver for chgat/wchgat/mvchgat/mvwchgat
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS
 * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/clip_printw.c
Prereq:  1.23
--- ncurses-6.5-20240928+/test/clip_printw.c 2023-09-30 19:57:44.000000000 +0000
+++ ncurses-6.5-20241006/test/clip_printw.c 2024-10-06 22:36:25.000000000 +0000
@@ -1,5 +1,5 @@
/*******************************************************************************
```

```
- * Copyright 2019-2022,2023 Thomas E. Dickey                          *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                          *
 * Copyright 2008-2016,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge,
 to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ***********************************************************************/
/*
- * $Id: clip_printw.c,v 1.23 2023/09/30 19:57:44 tom Exp $
+ * $Id: clip_printw.c,v 1.25 2024/10/06 22:36:25 tom Exp $
 *
 * demonstrate how to use printw with/without wrapping.
 */
@@ -212,7 +212,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - (2 * MARGIN),
    sp->x_max - (2 * MARGIN),
@@ -268,7 +268,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/color_name.h
Prereq:  1.9
--- ncurses-6.5-20240928+/test/color_name.h 2021-04-24 23:25:29.000000000 +0000
+++ ncurses-6.5-20241006/test/color_name.h 2024-10-05
 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2020,2021 Thomas E. Dickey                          *
+ * Copyright 2018-2021,2024 Thomas E. Dickey                          *
 * Copyright 2011-2012,2016 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ****************************************************************************/
```

```
/*
- * $Id: color_name.h,v 1.9 2021/04/24 23:25:29 tom Exp $
+ * $Id: color_name.h,v 1.10 2024/10/05 19:26:24 tom Exp $
 */

#ifndef __COLORNAME_H
@@ -63,7 +63,6 @@
{
   int result = 0;
   char *endp = 0;
-   size_t n;

   if ((result = (int) strtol(color,
 &endp, 0)) >= 0
 && (endp == 0 || *endp == 0)) {
@@ -71,6 +70,7 @@
   } else if (!strcmp(color, "default")) {
 result = -1;
   } else {
+ size_t n;
 for (n = 0; n < SIZEOF(the_color_names); ++n) {
     if (!strcmp(the_color_names[n], color)) {
  result = (int) n;
Index: test/demo_defkey.c
Prereq:  1.35
--- ncurses-6.5-20240928+/test/demo_defkey.c 2024-01-20 20:46:12.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_defkey.c 2024-10-05 18:20:04.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                             *
 ******************************************************************************/
/*
- * $Id: demo_defkey.c,v 1.35 2024/01/20 20:46:12 tom Exp $
+ * $Id: demo_defkey.c,v 1.36 2024/10/05 18:20:04 tom Exp $
 *
 * Demonstrate the define_key() function.
 * Thomas Dickey - 2002/11/23
@@ -199,7 +199,7 @@
}

static void
-redefine(WINDOW *win, char *string, int code)
+redefine(WINDOW *win, const char *string, int code)
{

   really_define_key(win, string, code);
}
Index: test/demo_forms.c
Prereq:  1.63
```

```
--- ncurses-6.5-20240928+/test/demo_forms.c 2023-11-11 00:29:53.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_forms.c 2024-10-06 21:15:12.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: demo_forms.c,v 1.63 2023/11/11 00:29:53 tom Exp $
+ * $Id: demo_forms.c,v 1.67
 2024/10/06 21:15:12 tom Exp $
 *
 * Demonstrate a variety of functions from the form library.
 * Thomas Dickey - 2003/4/26
@@ -148,7 +148,7 @@
}

static FIELD *
-make_label(const char *label, int frow, int fcol)
+make_label(NCURSES_CONST char *label, int frow, int fcol)
{
   FIELD *f = new_field(1, (int) strlen(label), frow, fcol, 0, 0);

@@ -242,7 +242,7 @@
#define O_SELECTABLE (O_ACTIVE | O_VISIBLE)

static FIELD *
-another_field(FORM *form, const FIELD *const field)
+another_field(NCURSES_CONST FORM *form, NCURSES_CONST FIELD *const field)
{
   FIELD **f = form_fields(form);
   FIELD *result = 0;
@@ -306,9 +306,9 @@
}

static void
-show_current_field(WINDOW *win, FORM *form)
+show_current_field(WINDOW *win, NCURSES_CONST FORM *form)
{
-    FIELD *field;
+    NCURSES_CONST FIELD *field;
    int field_rows, field_cols, field_max;
    int currow, curcol;
```

```
@@ -325,7 +325,7 @@
   waddch(win, '\n');

   if ((field = current_field(form)) != 0) {
- FIELDTYPE *type;
+ NCURSES_CONST
 FIELDTYPE *type;
 int nbuf;

 wprintw(win, "Page %d%s, Field %d/%d%s:",
@@ -383,7 +383,7 @@

 waddstr(win, "\n");
 for (nbuf = 0; nbuf <= 2; ++nbuf) {
-    char *buffer;
+    NCURSES_CONST char *buffer;
    if ((buffer = field_buffer(field, nbuf)) != 0) {
  wprintw(win, "buffer %d:", nbuf);
  (void) wattrset(win, A_REVERSE);
@@ -408,8 +408,8 @@
   int c;
   unsigned n = 0;
   int pg;
-   const char *fname;
-   static const char *my_enum[] =
+    NCURSES_CONST char *fname;
+    static NCURSES_CONST char *my_enum[] =
   {"first", "second", "third", 0};

#ifdef NCURSES_MOUSE_VERSION
@@ -515,7 +515,7 @@
   f[n] = (FIELD *) 0;

   if ((form = new_form(f)) != 0) {
- WINDOW *w;
+ NCURSES_CONST WINDOW *w;
 WINDOW *also;
 int finished = 0;

Index: test/demo_menus.c
Prereq:  1.80
--- ncurses-6.5-20240928+/test/demo_menus.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_menus.c 2024-10-06 19:58:28.000000000 +0000
@@ -1,5
 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
```

```
+ * Copyright 2019-2023,2024 Thomas E. Dickey                          *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.              *
 *                                                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                       *
 ************************************************************************/
/*
- * $Id: demo_menus.c,v 1.80 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_menus.c,v 1.82 2024/10/06 19:58:28 tom Exp $
 *
 * Demonstrate a variety of functions from the menu library.
 * Thomas Dickey - 2005/4/9
@@ -185,7 +185,7 @@
}

static int
-menu_getc(MENU * m)
+menu_getc(NCURSES_CONST MENU * m)
{
   return wGetchar(menu_win(m));
 }
@@ -214,7 +214,7 @@
my_menu_init(MENU * menu)
{
   Trace(("called MenuHook my_menu_init"));
-    mvwprintw(status, 2, 0, "menu_init %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_init %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -223,7 +223,7 @@
my_menu_term(MENU * menu)
{
   Trace(("called MenuHook my_menu_term"));
-    mvwprintw(status, 2, 0, "menu_term %p", (void *) menu);
+    mvwprintw(status, 2, 0, "menu_term %p", (const void *) menu);
   wclrtoeol(status);
   wrefresh(status);
}
@@ -231,7 +231,7 @@
static void
my_item_init(MENU * menu)
{
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
   const char *name = item_name(item);
```

```
   Trace(("called MenuHook my_item_init (%s)", name));
@@ -243,7 +243,7 @@
static void
my_item_term(MENU * menu)
{
-    ITEM *item = current_item(menu);
+    NCURSES_CONST ITEM *item = current_item(menu);
    const char *name = item_name(item);

    Trace(("called MenuHook my_item_term (%s)", name));
@@ -348,7 +348,7 @@

/* force the given menu to appear */
static void
-menu_display(MENU * m)
+menu_display(NCURSES_CONST MENU * m)
{
    touchwin(menu_win(m));
    wrefresh(menu_win(m));
@@ -584,10 +584,10 @@
 * the others
 */
static bool
-update_trace_menu(MENU * m)
+update_trace_menu(NCURSES_CONST MENU * m)
{
    ITEM **items;
-    ITEM *i;
+    NCURSES_CONST ITEM *i;
    bool changed = FALSE;

    items = menu_items(m);
@@ -613,7 +613,7 @@
    int result;

    for (ip = menu_items(mpTrace); *ip; ip++) {
- MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+ NCURSES_CONST MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
 unsigned mask = td->mask;
 if (mask == 0)
     set_item_value(*ip, _nc_tracing == 0);
@@ -628,7 +628,7 @@
     unsigned newtrace = 0;
     for (ip = menu_items(mpTrace); *ip; ip++) {
  if (item_value(*ip)) {
-      MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
+      NCURSES_CONST
```

```
 MENU_DATA *td = (MENU_DATA *) item_userptr(*ip);
     newtrace |= td->mask;
  }
    }
@@ -718,7 +718,9 @@
}

static int
-move_menu(MENU * menu, MENU * current, int by_y, int by_x)
+move_menu(NCURSES_CONST MENU * menu,
+   NCURSES_CONST MENU * current,
+   int by_y, int by_x)
{
   WINDOW *top_win = menu_win(menu);
   WINDOW *sub_win = menu_sub(menu);
@@ -798,7 +800,7 @@
#endif /* defined(KEY_RESIZE) && NCURSES_EXT_FUNCS */

static void
-show_status(int ch, MENU * menu)
+show_status(int ch, NCURSES_CONST MENU * menu)
{
   wmove(status, 0, 0);
   wprintw(status, "key %s, menu %d, mark %s, match %s",
@@ -919,7 +921,7 @@
 wrefresh(menu_win(last_menu));
 if (code == E_UNKNOWN_COMMAND
     || code == E_NOT_POSTED) {
-    ITEM *item = current_item(last_menu);
+    NCURSES_CONST ITEM *item = current_item(last_menu);
     MENU_DATA *td = (MENU_DATA *) item_userptr(item);
     td->func((int) td->mask);
 }
Index: test/demo_new_pair.c
Prereq:  1.28
--- ncurses-6.5-20240928+/test/demo_new_pair.c 2024-06-29
 19:30:26.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_new_pair.c 2024-10-05 18:21:44.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ******************************************************************************/
/*
- * $Id: demo_new_pair.c,v 1.28 2024/06/29 19:30:26 tom Exp $
+ * $Id: demo_new_pair.c,v 1.29 2024/10/05 18:21:44 tom Exp $
 *
 * Demonstrate the alloc_pair() function.
 */
@@ -49,7 +49,7 @@
```

```
static bool
valid_cap(NCURSES_CONST char *name)
{
-    char *value = tigetstr(name);
+    const char *value = tigetstr(name);
    return (value != 0 && value != (char *) -1) ? TRUE : FALSE;
}

Index: test/demo_panels.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/demo_panels.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_panels.c 2024-10-06 20:01:21.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2018-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2003-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: demo_panels.c,v 1.48 2022/12/04 00:40:11 tom Exp $
+ * $Id: demo_panels.c,v 1.50 2024/10/06 20:01:21 tom Exp $
 *
 * Demonstrate a variety of functions from the panel library.
 */
@@ -42,7 +42,7 @@
#define TEMP_POS '>'

typedef void (*InitPanel) (void);
-typedef void (*FillPanel) (PANEL *);
+typedef void (*FillPanel) (NCURSES_CONST PANEL *);

static bool use_colors = FALSE;
static bool
 unboxed = FALSE;
@@ -301,7 +301,7 @@
 int code;
 int y0, x0;
 int y1, x1;
- WINDOW *win = panel_window(pans[which]);
+ NCURSES_CONST WINDOW *win = panel_window(pans[which]);
 char also[80];

 getbegyx(win, y0, x0);
```

```
@@ -368,7 +368,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -388,7 +388,7 @@
}

static void
-fill_unboxed(PANEL *pan)
+fill_unboxed(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -431,7 +431,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   int num = ((const char *) panel_userptr(pan))[1];
@@ -453,7 +453,7 @@
#define MAX_PANELS 5

static int
-which_panel(PANEL *px[MAX_PANELS + 1], PANEL *pan)
+which_panel(PANEL *px[MAX_PANELS + 1], NCURSES_CONST
 PANEL *pan)
{
   int result = 0;
   int j;
Index: test/demo_termcap.c
Prereq:  1.65
--- ncurses-6.5-20240928+/test/demo_termcap.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_termcap.c 2024-10-06 20:05:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2005-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_termcap.c,v 1.65 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_termcap.c,v 1.70 2024/10/06 20:05:09 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -256,7 +256,7 @@

   * to hold all of the strings extracted from the terminal entry.
    */
   char area[1024], *ap = area;
-   char *str;
+    NCURSES_CONST char *str;
   int num;

   if ((str = tgetstr(cap, &ap)) != 0) {
@@ -289,7 +289,7 @@
}

static void
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
   char buffer[1024];

@@ -369,7 +369,7 @@
#ifdef NCURSES_VERSION
 if (x_opt && (my_blob == 0) && y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
    if (term != 0
  && ((NUM_BOOLEANS(term) != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -781,12 +781,12 @@
{
   int ch;
   int n;
-   char *name;
+    NCURSES_CONST char *name;
   bool a_opt = FALSE;
#if defined(NCURSES_VERSION) || defined(HAVE_CURSES_DATA_OSPEED)
   bool v_opt = FALSE;
#endif
-   char *input_name = 0;
```

```
+    NCURSES_CONST char *input_name = 0;

    int repeat;
    int r_opt = 1;
@@ -867,7
 +867,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
     }
 }
@@ -894,7 +894,7 @@
     } else if ((name = getenv("TERM")) != 0) {
  demo_termcap(name);
     } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_termcap(dumb);
     }
 }
Index: test/demo_terminfo.c
Prereq:  1.57
--- ncurses-6.5-20240928+/test/demo_terminfo.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/demo_terminfo.c 2024-10-06 21:16:43.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
                                      *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: demo_terminfo.c,v 1.57 2023/05/27 20:13:10 tom Exp $
+ * $Id: demo_terminfo.c,v 1.59 2024/10/06 21:16:43 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -253,7 +253,7 @@
#define LegalItem(c,n) (n)

static void
```

```
-brute_force(const char *name)
+brute_force(NCURSES_CONST char *name)
{
#define MAX_FORCE 5  /* omit "colors", since CPU-time is a problem */
   static const char legal[] = "\
@@ -324,7 +324,7 @@
#endif

static void
-demo_terminfo(char *name)
+demo_terminfo(NCURSES_CONST char *name)
{
   unsigned n;
   NCURSES_CONST char *cap;
@@ -366,7 +366,7 @@
   if (x_opt && (my_blob == 0)) {
 if (y_opt) {
#if NCURSES_XNAMES
-    TERMTYPE *term = (TERMTYPE *) cur_term;
+    const TERMTYPE *term = (TERMTYPE *) cur_term;
     if (term != 0
  && ((NUM_BOOLEANS(term)
 != BOOLCOUNT)
     || (NUM_NUMBERS(term) != NUMCOUNT)
@@ -813,9 +813,9 @@
   int ch;
   int n;
   int repeat;
-   char *name;
+   NCURSES_CONST char *name;
   int r_opt = 1;
-   char *input_name = 0;
+   const char *input_name = 0;

   while ((ch = getopt(argc, argv, OPTS_COMMON "abd:e:fi:nqr:sxy")) != -1) {
 switch (ch) {
@@ -891,7 +891,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  brute_force(name);
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  brute_force(dumb);
    }
 }
@@ -918,7 +918,7 @@
    } else if ((name = getenv("TERM")) != 0) {
  demo_terminfo(name);
```

```
    } else {
-  static char dumb[] = "dumb";
+  static NCURSES_CONST char dumb[] = "dumb";
  demo_terminfo(dumb);
    }
 }
Index: test/dots.c
Prereq:  1.45
--- ncurses-6.5-20240928+/test/dots.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 1999-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey <dickey@clark.net> 1999
 *
- * $Id: dots.c,v 1.45 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots.c,v 1.46 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface.
 */
@@ -61,7 +61,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_mvcur.c
Prereq:  1.31
--- ncurses-6.5-20240928+/test/dots_mvcur.c 2023-01-07 17:21:48.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_mvcur.c 2024-10-06
 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2007-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
```

```
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2007
 *
- * $Id: dots_mvcur.c,v 1.31 2023/01/07 17:21:48 tom Exp $
+ * $Id: dots_mvcur.c,v 1.32 2024/10/06 21:17:54 tom Exp $
 *
 * A simple demo of the terminfo interface, and mvcur.
 */
@@ -62,7 +62,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/dots_termcap.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/dots_termcap.c 2024-08-31
 15:55:46.000000000 +0000
+++ ncurses-6.5-20241006/test/dots_termcap.c 2024-10-06 21:18:35.000000000 +0000
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: dots_termcap.c,v 1.33 2024/08/31 15:55:46 tom Exp $
+ * $Id: dots_termcap.c,v 1.35 2024/10/06 21:18:35 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
}

static bool
-outs(char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
@@ -178,7 +178,7 @@
get_number(NCURSES_CONST char *cap, const char *env)
{
   int result = tgetnum(cap);
-    char *value = env ? getenv(env) : 0;
+    const char *value = env ? getenv(env) : 0;
   if (value != 0 && *value != 0) {
```

```
 char *next = 0;
 long check = strtol(value, &next, 10);
@@ -229,7 +229,7 @@
    double c;
    char buffer[1024];
    char area[1024];
-    char *name;
+    NCURSES_CONST char *name;
    size_t need;
    char *my_env;

Index: test/dup_field.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/dup_field.c 2024-06-29
 17:45:32.000000000 +0000
+++ ncurses-6.5-20241006/test/dup_field.c 2024-10-06 20:07:19.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: dup_field.c,v 1.9 2024/06/29 17:45:32 tom Exp $
+ * $Id: dup_field.c,v 1.11 2024/10/06 20:07:19 tom Exp $
 *
 * Demonstrate dup_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
   return (FieldAttrs *) field_userptr(f);
}

static int
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}
```

```
static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST
 FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
    int currow, curcol;

    form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

Index: test/filter.c
Prereq:  1.38
--- ncurses-6.5-20240928+/test/filter.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/filter.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@
 -30,7 +30,7 @@
/*
 * Author:  Thomas E. Dickey 1998
 *
- * $Id: filter.c,v 1.38 2022/12/04 00:40:11 tom Exp $
+ * $Id: filter.c,v 1.39 2024/10/05 19:26:24 tom Exp $
 *
 * An example of the 'filter()' function in ncurses, this program prompts
 * for commands and executes them (like a command shell).  It illustrates
@@ -65,7 +65,7 @@
    if (clocked) {
 if (limit >= 3) {
     time_t now = time((time_t *) 0);
-     struct tm *my = localtime(&now);
+     const struct tm *my = localtime(&now);
     char buffer[80];
```

```
    int skip, y, x;
    int margin;
Index: test/form_driver_w.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/form_driver_w.c 2022-12-10 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/form_driver_w.c 2024-10-06 23:13:40.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey
                      *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -32,7 +32,7 @@
 ****************************************************************************/

/*
- * $Id: form_driver_w.c,v 1.17 2022/12/10 23:31:31 tom Exp $
+ * $Id: form_driver_w.c,v 1.18 2024/10/06 23:13:40 tom Exp $
 *
 * Test form_driver_w (int, int, wchar_t), a wide char aware
 * replacement of form_driver.
@@ -68,7 +68,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^D,^Q,ESC           - quit program",
Index: test/gdc.c
Prereq:  1.60
--- ncurses-6.5-20240928+/test/gdc.c 2024-06-29 19:59:06.000000000 +0000
+++ ncurses-6.5-20241006/test/gdc.c 2024-10-06 20:08:59.000000000 +0000
@@ -34,7 +34,7 @@
 * modified 10-18-89
 for curses (jrl)
 * 10-18-89 added signal handling
 *
- * $Id: gdc.c,v 1.60 2024/06/29 19:59:06 tom Exp $
+ * $Id: gdc.c,v 1.62 2024/10/06 20:08:59 tom Exp $
 */

#include <test.priv.h>
@@ -181,7 +181,7 @@
    int check;
```

```
   time_t result;
   char c = 0;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;

   switch (sscanf(value, "%d:%d:%d%c", &hh, &mm, &ss, &c)) {
   default:
@@ -243,7 +243,7 @@
main(int argc, char *argv[])
{
   time_t now;
-    struct tm *tm;
+    NCURSES_CONST struct tm *tm;
   long t, a;
   int i, j, s, k, ch;
   int count = 0;
@@ -293,7 +293,7 @@

   InitAndCatch({
 if (redirected) {
-     char *name = getenv("TERM");
+     NCURSES_CONST char *name = getenv("TERM");
     if (name == 0
  || newterm(name, ofp, ifp) == 0) {
  fprintf(stderr, "cannot open terminal\n");
@@ -431,7 +431,7 @@
    _nc_STRNCPY(buf, ctime(&now), (size_t) 30);
    {
  char *d2 = buf + 10;
-  char *s2 = buf + 19;
+  NCURSES_CONST char *s2 = buf + 19;
   while ((*d2++ = *s2++) != '\0') ;
    }
    MvAddStr(16, 30, buf);
Index: test/inch_wide.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/inch_wide.c 2022-12-10 23:55:34.000000000 +0000
+++ ncurses-6.5-20241006/test/inch_wide.c 2024-10-06 23:14:31.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2010,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
```

```
/*
- * $Id: inch_wide.c,v 1.13 2022/12/10 23:55:34 tom Exp $
+
 * $Id: inch_wide.c,v 1.14 2024/10/06 23:14:31 tom Exp $
 */
/*
      int in_wch(cchar_t *wcval);
@@ -61,7 +61,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/inchs.c
Prereq:  1.19
--- ncurses-6.5-20240928+/test/inchs.c 2022-12-11 00:01:39.000000000 +0000
+++ ncurses-6.5-20241006/test/inchs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of
 charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inchs.c,v 1.19 2022/12/11 00:01:39 tom Exp $
+ * $Id: inchs.c,v 1.20 2024/10/06 21:17:54 tom Exp $
 *
 * Author: Thomas E Dickey
 */
@@ -71,7 +71,7 @@
static int
test_inchs(int level, char **argv, WINDOW *chrwin, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Test input from screen using inch(), etc., in a moveable viewport.",
 "",
Index: test/ins_wide.c
Prereq:  1.30
```

```
--- ncurses-6.5-20240928+/test/ins_wide.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/ins_wide.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright
 2020-2022,2024 Thomas E. Dickey                                  *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: ins_wide.c,v 1.30 2022/12/10 22:28:50 tom Exp $
+ * $Id: ins_wide.c,v 1.31 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the wins_wstr() and wins_wch functions.
 * Thomas Dickey - 2002/11/23
@@ -73,7 +73,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/insdelln.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/insdelln.c 2022-12-10
 23:31:31.000000000 +0000
+++ ncurses-6.5-20241006/test/insdelln.c 2024-10-06 21:08:52.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2008-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: insdelln.c,v 1.15 2022/12/10 23:31:31 tom Exp $
+ * $Id: insdelln.c,v 1.17 2024/10/06 21:08:52 tom Exp $
 *
 * test-driver for deleteln, wdeleteln, insdelln, winsdelln, insertln, winsertln
```

```
 */
@@ -160,7 +160,7 @@
}

static void
-do_subwindow(WINDOW *win, STATUS * sp, void func(WINDOW *))
+do_subwindow(WINDOW *win, const STATUS * sp, void func(WINDOW *))
{
   WINDOW *win1 = newwin(sp->y_max - 2, sp->x_max - 2,
    sp->y_beg + 1, sp->x_beg + 1);
@@ -204,7 +204,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *table[] =
+    static NCURSES_CONST char *table[] =
   {
 "Basic commands:"
 ,"Use h/j/k/l or arrow keys to move the cursor."
Index: test/inserts.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/inserts.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/inserts.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2002-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: inserts.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: inserts.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the winsstr() and winsch functions.
 * Thomas Dickey - 2002/10/19
@@ -98,7 +98,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
```

```
   int result;
Index: test/knight.c
Prereq:  1.52
--- ncurses-6.5-20240928+/test/knight.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/knight.c 2024-10-05 19:38:58.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright
 2018-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                      *
 * Copyright 1998-2013,2017 Free Software Foundation, Inc.              *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -34,7 +34,7 @@
 * Eric S. Raymond <esr@snark.thyrsus.com> July 22 1995.  Mouse support
 * added September 20th 1995.
 *
- * $Id: knight.c,v 1.52 2022/12/04 00:40:11 tom Exp $
+ * $Id: knight.c,v 1.53 2024/10/05 19:38:58 tom Exp $
 */

#include <test.priv.h>
@@ -450,7 +450,8 @@
}

static bool
-evaluate_move(SQUARES squares, HISTORY * doneData, int doneSize, int row, int column)
+evaluate_move(SQUARES squares, const HISTORY * doneData, int doneSize,
+       int row, int column)
{
   if (doneSize <= 1)
 return (TRUE);
Index: test/list_keys.c
Prereq:  1.33
--- ncurses-6.5-20240928+/test/list_keys.c 2023-11-11
 00:35:05.000000000 +0000
+++ ncurses-6.5-20241006/test/list_keys.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                      *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                       *
 * Copyright 2016,2017 Free Software Foundation, Inc.                   *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                 *
 ****************************************************************************/
/*
```

```
- * $Id: list_keys.c,v 1.33 2023/11/11 00:35:05 tom Exp $
+ * $Id: list_keys.c,v 1.34 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -297,7 +297,7 @@
#if NCURSES_XNAMES
    if (x_opt) {
  for (k = 0; k < count; ++k) {
-     TERMTYPE *term;
+     const TERMTYPE *term;
     set_curterm(terms[k]);
     term = (TERMTYPE *) cur_term;
     total += (size_t) (NUM_STRINGS(term) - STRCOUNT);
@@ -348,7 +348,7 @@
 widths1 = (int) strlen(modifier);

    for (k = 0; k < count; ++k) {
- char *value;
+ const char *value;
 set_curterm(terms[k]);
 if ((value = termname()) == NULL)
     failed("termname");
Index: test/move_field.c
Prereq:  1.16
--- ncurses-6.5-20240928+/test/move_field.c 2024-06-29 17:45:02.000000000 +0000
+++ ncurses-6.5-20241006/test/move_field.c 2024-10-06 21:12:35.000000000 +0000
@@ -26,7 +26,7 @@
 * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: move_field.c,v 1.16 2024/06/29 17:45:02 tom Exp $
+ * $Id: move_field.c,v 1.19 2024/10/06 21:12:35 tom Exp $
 *
 * Demonstrate move_field().
 */
@@ -146,27 +146,27 @@
}

static FieldAttrs
 *
-my_field_attrs(FIELD *f)
+my_field_attrs(NCURSES_CONST FIELD *f)
{
    return (FieldAttrs *) field_userptr(f);
}

static int
```

```
-buffer_length(FIELD *f)
+buffer_length(NCURSES_CONST FIELD *f)
{
   return my_field_attrs(f)->row_lengths[0];
}

static void
-set_buffer_length(FIELD *f, int length)
+set_buffer_length(NCURSES_CONST FIELD *f, int length)
{
   my_field_attrs(f)->row_lengths[0] = length;
}

static int
-offset_in_field(FORM *form)
+offset_in_field(NCURSES_CONST FORM *form)
{
-    FIELD *field = current_field(form);
+    NCURSES_CONST FIELD *field = current_field(form);
   int currow, curcol;

   form_getyx(form, currow, curcol);
@@ -245,7 +245,7 @@

 default:
     modified = (ch < MIN_FORM_COMMAND
-   && isprint(ch));
+   && isprint(UChar(ch)));
     break;
 }

@@ -275,9 +275,9 @@

/* display a status message to show what's happening */
static void
-show_status(FORM *form, FIELD *field)
+show_status(NCURSES_CONST FORM *form, NCURSES_CONST FIELD
 *field)
{
-    WINDOW *sub = form_sub(form);
+    NCURSES_CONST WINDOW *sub = form_sub(form);
   int currow, curcol;

   getyx(stdscr, currow, curcol);
Index: test/movewindow.c
Prereq:  1.54
--- ncurses-6.5-20240928+/test/movewindow.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/movewindow.c 2024-10-06 18:44:26.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2006-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
 /*
- * $Id: movewindow.c,v 1.54 2023/05/27 20:13:10 tom Exp $
+ * $Id: movewindow.c,v 1.56 2024/10/06 18:44:26 tom Exp $
 *
 * Demonstrate move functions for windows and derived windows from the curses
 * library.
@@ -135,7 +135,7 @@
 */
static PAIR *
selectcell(WINDOW *parent,
-    WINDOW *child,
+    NCURSES_CONST WINDOW *child,
    int uli, int ulj,
    int lri, int lrj,
    bool relative,
@@ -252,7 +252,7 @@
    int max_col = (parent == stdscr) ? COL_MAX : getmaxx(parent);
    int min_line = (parent == stdscr) ? LINE_MIN : 0;
    int max_line = (parent == stdscr) ? LINE_MAX : getmaxy(parent);
-    PAIR *tmp;
+    NCURSES_CONST PAIR *tmp;
    bool result = FALSE;

    head_line("Use arrows to move cursor, anything else to mark corner 1");
@@ -346,7 +346,7 @@
}

static WINDOW *
-parent_of(WINDOW *win)
+parent_of(NCURSES_CONST WINDOW *win)
{
    WINDOW *result = 0;
    int n = window2num(win);
@@ -435,7 +435,7 @@
 int max_col = top ? COL_MAX
 : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
```

```
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 head_line("Select new position for %swindow", top ? "" : "sub");
@@ -474,7 +474,7 @@
}

static void
-show_derwin(WINDOW *win)
+show_derwin(NCURSES_CONST WINDOW *win)
{
   int pary, parx, maxy, maxx;

@@ -500,7 +500,7 @@
 int max_col = top ? COL_MAX : getmaxx(parent);
 int min_line = top ? LINE_MIN : 0;
 int max_line = top ? LINE_MAX : getmaxy(parent);
- PAIR *tmp;
+ NCURSES_CONST PAIR *tmp;
 bool more;

 show_derwin(win);
Index: test/ncurses.c
Prereq:  1.538
--- ncurses-6.5-20240928+/test/ncurses.c 2023-11-11 01:23:59.000000000 +0000
+++ ncurses-6.5-20241006/test/ncurses.c 2024-10-06 20:18:59.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024
 Thomas E. Dickey                                *
 * Copyright 1998-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -41,7 +41,7 @@
  Author: Eric S. Raymond <esr@snark.thyrsus.com> 1993
          Thomas E. Dickey (beginning revision 1.27 in 1996).

-$Id: ncurses.c,v 1.538 2023/11/11 01:23:59 tom Exp $
+$Id: ncurses.c,v 1.541 2024/10/06 20:18:59 tom Exp $

****************************************************************************/

@@ -273,7 +273,7 @@
    ++x;
    break;
 default:
```

```
-     if (!isprint(ch) || ch >= KEY_MIN) {
+     if (!isprint(UChar(ch)) || ch >= KEY_MIN) {
  beep();
     } else if ((int) strlen(buffer) < limit) {
  int j;
@@ -928,7 +928,7 @@
  /* at least Solaris SVR4 curses breaks unctrl(128), etc. */
  c2 &= 0x7f;
 #endif
-  if (isprint(c))
+  if (isprint(UChar(c)))
      (void)
  wprintw(win, "%c", UChar(c));
  else if (c2 != UChar(c))
     (void) wprintw(win, "M-%s", unctrl(c2));
@@ -1693,7 +1693,7 @@
     chtype extras = (chtype) ac;

     if (UseColors) {
-  NCURSES_PAIRS_T pair = 0;
+  NCURSES_PAIRS_T pair;
  if ((fg != COLOR_BLACK) || (bg != COLOR_BLACK)) {
     pair = 1;
     if (init_pair(pair, fg, bg) == ERR) {
@@ -2345,7 +2345,6 @@
 for (i = (NCURSES_PAIRS_T) (base_row * per_row); i < pairs_max; i++) {
     int row = grid_top + (i / per_row) - base_row;
     int col = (i % per_row + 1) * width;
-     NCURSES_PAIRS_T pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2355,6 +2354,7 @@
     if (row >= 0 && move(row, col) != ERR) {
  NCURSES_COLOR_T fg = (NCURSES_COLOR_T) InxToFG(i);
  NCURSES_COLOR_T bg = (NCURSES_COLOR_T) InxToBG(i);
+  NCURSES_PAIRS_T pair = i;

  init_pair(pair, fg, bg);
  attron(COLOR_PAIR(pair));
@@ -2517,7 +2517,7 @@
 static int
 x_color_test(bool recur GCC_UNUSED)
 {
-    long i;
+    int i;
```

```
 int top = 0, width;
    int base_row = 0;
    int grid_top = top + 3;
@@ -2613,17 +2613,17 @@
 /* show color names/numbers across the top */
 for (i = 0; i < per_row; i++) {
     show_color_name(top + 2,
-       ((int) i + 1) * width,
-       (int) i * zoom_size + MinColors,
+        (i + 1) * width,
+        i * zoom_size + MinColors,
        opt_wide,
        opt_zoom);
 }

 /* show a grid of colors, with color names/ numbers on the left */
 for (i = (base_row * per_row); i < pairs_max; i++) {
-     int row = grid_top + ((int) i / per_row) - base_row;
-     int col = ((int) i % per_row + 1) * width;
-     int pair = (int) i;
+     int row = grid_top + (i / per_row) - base_row;
+     int col = (i % per_row + 1) * width;
+     int pair = i;

     if ((i / per_row) > row_limit)
  break;
@@ -2828,7 +2828,7 @@
#define DecodeRGB(n) (NCURSES_COLOR_T) ((n * 1000) / 0xffff)

static void
-init_all_colors(bool xterm_colors, char *palette_file)
+init_all_colors(bool xterm_colors, NCURSES_CONST
 char *palette_file)
{
    NCURSES_PAIRS_T cp;
    all_colors = typeMalloc(RGB_DATA, (unsigned) MaxColors);
@@ -3317,7 +3317,7 @@
{
    int c, fmt = 1;
    char buf[9];
-    char *s;
+    NCURSES_CONST char *s;
    attr_t attr = A_NORMAL;
    unsigned at_code = 0;
#if HAVE_SLK_COLOR
@@ -3938,8 +3938,7 @@

    *dst = *src;
```

```
   do {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     attr |= (test_attrs & A_ALTCHARSET);
     setcchar(dst, test_wch, attr, pair, NULL);
 }, {
@@ -4810,7 +4809,8 @@
/* Ask user for a window definition */
{
   WINDOW *rwindow;
-    pair ul, lr, *tmp;
+    pair ul, lr;
+    NCURSES_CONST pair *tmp;

   move(0, 0);
   clrtoeol();
@@ -5014,7 +5014,8 @@
#if HAVE_WRESIZE
 case CTRL('X'): /* resize window */
     if (current) {
-  pair *tmp, ul, lr;
+  NCURSES_CONST pair *tmp;
+  pair ul, lr;
  int mx, my;

  move(0, 0);
@@ -5249,7 +5250,7 @@
}

static void
-fill_panel(PANEL *pan)
+fill_panel(NCURSES_CONST PANEL
 *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5286,7 +5287,7 @@
}

static void
-fill_wide_panel(PANEL *pan)
+fill_wide_panel(NCURSES_CONST PANEL *pan)
{
   WINDOW *win = panel_window(pan);
   const char *userptr = (const char *) panel_userptr(pan);
@@ -5336,7 +5337,7 @@
}
```

```
static int
-demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (PANEL *))
+demo_panels(void (*InitPanel) (WINDOW *), void (*FillPanel) (NCURSES_CONST PANEL *))
{
   int count;
   int itmp;
@@ -6246,7 +6247,8 @@
run_trace_menu(MENU * m)
{
   ITEM **items;
-   ITEM *i, **p;
+    NCURSES_CONST ITEM *i;
+    ITEM **p;

   for (;;) {
 bool changed = FALSE;
@@ -6424,7 +6426,7 @@

   if (field_info(me, &rows, &cols, &frow, &fcol, &nrow, &nbuf) == E_OK
 && nbuf > 0) {
- char *source = field_buffer(me, 1);
+ NCURSES_CONST char *source = field_buffer(me, 1);
 size_t have = (source ? strlen(source) : 0) + 1;
 size_t need
 = 80 + have;
 char *temp = malloc(need);
@@ -6434,7 +6436,7 @@
     _nc_STRNCPY(temp, source ? source : "", have + 1);
     len = (size_t) (char *) field_userptr(me);
     if (c <= KEY_MAX) {
-  if (isgraph(c) && (len + 1) < sizeof(temp)) {
+  if (isgraph(UChar(c)) && (len + 1) < sizeof(temp)) {
      temp[len++] = (char) c;
      temp[len] = 0;
      set_field_buffer(me, 1, temp);
@@ -6484,7 +6486,7 @@
}

static int
-form_virtualize(FORM *f, WINDOW *w)
+form_virtualize(NCURSES_CONST FORM *f, WINDOW *w)
{
   /* *INDENT-OFF* */
   static const struct {
@@ -6658,7 +6660,7 @@
static
FIELDCHECK_CB(pw_field_check)
```

```
{
-    char *s = field_buffer(fld, 0);
+    NCURSES_CONST char *s = field_buffer(fld, 0);
    int n;

    for (n = 0; s[n] != '\0'; ++n) {
@@ -6680,7 +6682,8 @@
form_test(bool recur GCC_UNUSED)
{
    FORM *form;
-    FIELD *f[12], *secure;
+    FIELD *f[12];
+    NCURSES_CONST FIELD *secure;
    FIELDTYPE *fty_middle = new_fieldtype(mi_field_check, mi_char_check);
     FIELDTYPE *fty_passwd = new_fieldtype(pw_field_check, pw_char_check);
    int c;
@@ -7176,7 +7179,7 @@
}

static void
-overlap_test_4(int flavor, WINDOW *a, WINDOW *b)
+overlap_test_4(int flavor, NCURSES_CONST WINDOW *a, WINDOW *b)
{
    switch ((otCOPY) flavor) {
    case otCOPY_overwrite:
@@ -7899,7 +7902,7 @@
    bool monochrome = FALSE;
#if HAVE_COLOR_CONTENT
    bool xterm_colors = FALSE;
-    char *palette_file = 0;
+    NCURSES_CONST char *palette_file = 0;
#endif

    setlocale(LC_ALL, "");
Index: test/padview.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/padview.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/padview.c 2024-10-06 21:08:25.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2019-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free
 Software Foundation, Inc.                         *
 *                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -29,7 +29,7 @@
/*
```

```
 * clone of view.c, using pads
 *
- * $Id: padview.c,v 1.22 2022/12/04 00:40:11 tom Exp $
+ * $Id: padview.c,v 1.24 2024/10/06 21:08:25 tom Exp $
 */

#include <test.priv.h>
@@ -182,7 +182,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -213,7 +213,7 @@
    for (k = 0; my_vec[k]; ++k) {
 char *s;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -279,7 +279,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =

    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -532,7 +532,7 @@
    beep();
    break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
    got_number = FALSE;
    value = 0;
 }
Index: test/parse_rgb.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/parse_rgb.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/parse_rgb.h 2024-10-05 19:26:24.000000000 +0000
```

```
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: parse_rgb.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: parse_rgb.h,v 1.6 2024/10/05 19:26:24 tom Exp $
 *
 * Sample implementation of ncurses RGB extension from user_caps(5).
 */
@@ -49,7 +49,7 @@
 int bits;
 int pwr2;
 int r = 0, g = 0, b = 0;
- char *data;
+ const char *data;
 char ch;

 for (max_bits = 0, pwr2 = 1;
Index: test/picsmap.c
Prereq:  1.149
--- ncurses-6.5-20240928+/test/picsmap.c 2023-04-23 23:20:37.000000000 +0000
+++ ncurses-6.5-20241006/test/picsmap.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2018-2023,2024 Thomas E. Dickey                                *
 * Copyright 2017,2018 Free Software Foundation, Inc.                       *
 *                                                                          *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: picsmap.c,v 1.149 2023/04/23 23:20:37 tom Exp $
+ * $Id: picsmap.c,v 1.150 2024/10/05 19:26:24 tom Exp $
 *
 * Author: Thomas E. Dickey
 *
@@ -574,7 +574,7 @@
```

```
    _nc_STRCAT(full_name, filename, need);
    if (tries & 4) {
  char *t = s;
-  char *tc;
+  const char *tc;
  int num;
  char chr;
  int found = 0;
@@ -1374,8 +1374,8 @@
  int r, g, b, nocolor;
  float rf, gf, bf;
  unsigned check;
-  char *t;
-  char *s = t = strchr(buffer, '#');
+  char *s = strchr(buffer, '#');
+  const char *t = s;
  bool matched = FALSE;

  if (s != 0) {
@@ -1492,7 +1492,7 @@
#define fg_color(pics,n) (pics->fgcol[n].fgcol)

static void
-dump_picture(PICS_HEAD
- * pics)
+dump_picture(const PICS_HEAD * pics)
{
   int y, x;

@@ -1767,7 +1767,7 @@
#if USE_EXTENDED_COLORS
 case 'x':
    {
-  char *s = optarg;
+  const char *s = optarg;
  while (*s) {
     switch (*s++) {
     case 'p':
Index: test/popup_msg.c
Prereq:  1.12
--- ncurses-6.5-20240928+/test/popup_msg.c 2024-06-29 18:34:58.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.c 2024-10-06 21:07:01.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: popup_msg.c,v 1.12 2024/06/29 18:34:58 tom Exp $
+ * $Id: popup_msg.c,v 1.13 2024/10/06 21:07:01 tom Exp $
```

```
 *
 * Show a multi-line message in a window which may extend beyond the screen.
 *
@@ -62,7 +62,7 @@
 * Display a temporary window, e.g., to display a help-message.
 */
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST
 char *const *msg)
{
   int x0 = 4;
   int y0 = 2;
@@ -171,12 +171,12 @@
void
popup_msg2(WINDOW *parent, char **msg)
{
-    popup_msg(parent, (const char *const *) msg);
+    popup_msg(parent, (NCURSES_CONST char *const *) msg);
}

#else
void
-popup_msg(WINDOW *parent, const char *const *msg)
+popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg)
{
   (void) parent;
   (void) msg;
Index: test/popup_msg.h
Prereq:  1.5
--- ncurses-6.5-20240928+/test/popup_msg.h 2020-02-02 23:34:34.000000000 +0000
+++ ncurses-6.5-20241006/test/popup_msg.h 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018,2020 Thomas E. Dickey                                     *
+ * Copyright 2018-2020,2024 Thomas E. Dickey                                *
 * Copyright 2017 Free Software Foundation, Inc.                            *
 *                                                                          *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: popup_msg.h,v 1.5 2020/02/02 23:34:34 tom Exp $
+ * $Id: popup_msg.h,v 1.6 2024/10/06 21:17:54 tom Exp $
 *
 * Utility functions for a popup-message or help-screen.
```

```
 */
@@ -37,7 +37,7 @@

#include <test.priv.h>

-extern void popup_msg(WINDOW *parent, const char *const *msg);
+extern void popup_msg(WINDOW *parent, NCURSES_CONST char *const *msg);
extern void popup_msg2(WINDOW *parent, char **msg);

#endif /* POPUP_MSG_H_incl */
Index: test/railroad.c
Prereq:  1.26
--- ncurses-6.5-20240928+/test/railroad.c 2022-12-11 00:12:13.000000000 +0000
+++ ncurses-6.5-20241006/test/railroad.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2020,2022 Thomas E. Dickey                                *
+ * Copyright 2019-2022,2024 Thomas E. Dickey                                *
 * Copyright 2000-2013,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey - 2000
 *
- * $Id: railroad.c,v 1.26 2022/12/11 00:12:13 tom Exp $
+ * $Id: railroad.c,v 1.27 2024/10/05 19:26:24 tom Exp $
 *
 * A simple demo of the termcap interface.
 */
@@ -113,7 +113,7 @@
static void
ShowSign(char *string)
{
-    char *base = string;
+    const char *base = string;
    int first, last;

    if (moveit != 0) {
Index: test/rain.c
Prereq:  1.58
--- ncurses-6.5-20240928+/test/rain.c 2024-08-31 15:56:10.000000000 +0000
+++ ncurses-6.5-20241006/test/rain.c 2024-10-06 21:09:00.000000000 +0000
@@ -27,7 +27,7
 @@
 * authorization.                                                           *
 ****************************************************************************/
```

```
/*
- * $Id: rain.c,v 1.58 2024/08/31 15:56:10 tom Exp $
+ * $Id: rain.c,v 1.62 2024/10/06 21:09:00 tom Exp $
 */
#include <test.priv.h>
#include <popup_msg.h>
@@ -45,7 +45,7 @@

struct DATA;

-typedef void (*DrawPart) (struct DATA *);
+typedef void (*DrawPart) (const struct DATA *);

typedef struct DATA {
   int y, x;
@@ -118,25 +118,25 @@
}

static void
-part1(DATA * drop)
+part1(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, '.');
}

static void
-part2(DATA * drop)
+part2(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'o');
}

static void
-part3(DATA * drop)
+part3(const DATA * drop)
{
   MvAddCh(drop->y, drop->x, 'O');
}

static void
-part4(DATA * drop)
+part4(const DATA * drop)
{
   MvAddCh(drop->y - 1, drop->x, '-');
   MvAddStr(drop->y, drop->x - 1, "|.|");
@@ -144,7 +144,7 @@
 }
```

```
static void
-part5(DATA * drop)
+part5(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, '-');
   MvAddStr(drop->y - 1, drop->x - 1, "/ \\");
@@ -154,7 +154,7 @@
}

static void
-part6(DATA * drop)
+part6(const DATA * drop)
{
   MvAddCh(drop->y - 2, drop->x, ' ');
   MvAddStr(drop->y - 1, drop->x - 1, "   ");
@@ -186,7 +186,7 @@
}

static void
-draw_part(void (*func) (DATA *), int state, DATA * data)
+draw_part(void (*func) (const DATA *), int state, DATA * data)
{
   data->func = func;
   data->state = state;
@@ -328,7 +328,7 @@
int
main(int argc, char *argv[])
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
   {
 "Commands:",
 " q/Q        exit the program",
Index: test/redraw.c
Prereq:  1.17
--- ncurses-6.5-20240928+/test/redraw.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/redraw.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
```

```
/*
- * $Id: redraw.c,v 1.17 2022/12/10 22:28:50 tom Exp $
+ * $Id: redraw.c,v 1.18 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the redrawwin() and wredrawln() functions.
 * Thomas Dickey - 2006/11/4
@@ -61,7 +61,7 @@
static void
test_redraw(WINDOW *win)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  ^Q/ESC/q   - quit",
Index: test/savescreen.c
Prereq:
  1.62
--- ncurses-6.5-20240928+/test/savescreen.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/savescreen.c 2024-10-06 21:10:09.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2018-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2018-2022,2024 Thomas E. Dickey                                *
 * Copyright 2006-2017,2018 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: savescreen.c,v 1.62 2022/12/10 23:23:27 tom Exp $
+ * $Id: savescreen.c,v 1.65 2024/10/06 21:10:09 tom Exp $
 *
 * Demonstrate save/restore functions
 from the curses library.
 * Thomas Dickey - 2007/7/14
@@ -96,7 +96,7 @@
}

static int
-load_screen(char *filename)
+load_screen(NCURSES_CONST char *filename)
{
    int result;

@@ -170,7 +170,7 @@
#if USE_WIDEC_SUPPORT
```

```
    cchar_t mycc;
#endif
-    char *filename = files[which];
+    NCURSES_CONST char *filename = files[which];
    bool dumped = FALSE;

    if (filename != 0) {
@@ -216,7 +216,7 @@
static void
editor_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "You are now in the screen-editor, which allows you to make some",
 "lines on the screen, as well as save copies of the screen to a",
@@ -238,7 +238,7 @@
static void
replay_help(void)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "You are now in the screen-loader, which allows you to view",
 "the dumped/restored screens.",
@@ -286,7 +286,7 @@
    bool replaying = FALSE;
    bool done = FALSE;
    char **files;
-
    char *fill_by = 0;
+    NCURSES_CONST char *fill_by = 0;
#if USE_WIDEC_SUPPORT
    cchar_t mycc;
    static const wchar_t mywc[2] =
Index: test/tclock.c
Prereq:  1.48
--- ncurses-6.5-20240928+/test/tclock.c 2023-02-25 16:42:22.000000000 +0000
+++ ncurses-6.5-20241006/test/tclock.c 2024-10-05 18:47:56.000000000 +0000
@@ -1,4 +1,4 @@
-/* $Id: tclock.c,v 1.48 2023/02/25 16:42:22 tom Exp $ */
+/* $Id: tclock.c,v 1.49 2024/10/05 18:47:56 tom Exp $ */

#define NEED_TIME_H
#include <test.priv.h>
@@ -145,7 +145,7 @@
    int lastbeep = -1;
    bool odd = FALSE;
```

```
    time_t tim;
-   struct tm *t;
+    const struct tm *t;
    char szChar[20];
    char *text;
    short my_bg = COLOR_BLACK;
Index: test/test.priv.h
Prereq:  1.219
--- ncurses-6.5-20240928+/test/test.priv.h 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test.priv.h 2024-10-05 19:01:00.000000000 +0000
@@ -30,7 +30,7 @@
/******************************************************************************
 *  Author: Thomas E. Dickey                    1996-on                       *
 ******************************************************************************/
-/* $Id: test.priv.h,v 1.219 2024/08/31 10:46:01 Rafael.Kitover Exp $ */
+/* $Id: test.priv.h,v 1.220 2024/10/05 19:01:00 tom Exp $ */

#ifndef __TEST_PRIV_H
#define __TEST_PRIV_H 1
@@ -765,8 +765,8 @@

#define VERSION_COMMON() \
static char *version_common(char **argv) { \
- char *base = argv[0]; \
- char *part = strrchr(base, '/'); \
+ const char *base = argv[0]; \
+ const char *part = strrchr(base, '/'); \
 size_t need = strlen(base) + 80; \
 char *result = malloc(need); \
 if (result != NULL) { \
@@ -916,8 +916,8 @@
 * Workaround in case getcchar() returns a positive value when the source
 * string produces only a L'\0'.
 */
-#define TEST_CCHAR(s, count, then_stmt, else_stmt) \
- if ((count = getcchar(s, NULL, NULL, NULL, NULL)) > 0) { \
+#define TEST_CCHAR(s, then_stmt, else_stmt) \
+ if (getcchar(s, NULL, NULL,
+  NULL, NULL) > 0) { \
     wchar_t test_wch[CCHARW_MAX + 2]; \
     attr_t test_attrs; \
     NCURSES_PAIRS_T test_pair; \
Index: test/test_add_wchstr.c
Prereq:  1.34
--- ncurses-6.5-20240928+/test/test_add_wchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_add_wchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/******************************************************************************
```

```
- * Copyright 2020-2021,2022 Thomas E. Dickey                             *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                             *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                         *
 ****************************************************************************/
 /*
- * $Id: test_add_wchstr.c,v 1.34 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_add_wchstr.c,v 1.35 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddwchstr() and wadd_wch functions.
 * Thomas Dickey - 2009/9/12
@@ -158,7 +158,7 @@
}

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_addchstr.c
Prereq:  1.29
--- ncurses-6.5-20240928+/test/test_addchstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addchstr.c 2024-10-05 19:26:24.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                   *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                              *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                *
 *                                                                        *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                         *
 ****************************************************************************/
/*
- * $Id: test_addchstr.c,v 1.29 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addchstr.c,v 1.30 2024/10/05 19:26:24 tom Exp $
 *
 * Demonstrate the waddchstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -169,7 +169,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
```

```
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addstr.c
Prereq:  1.20
--- ncurses-6.5-20240928+/test/test_addstr.c 2022-12-10 22:28:50.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_addstr.c,v 1.20 2022/12/10 22:28:50 tom Exp $
+ * $Id: test_addstr.c,v 1.21 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddstr() and waddch functions.
 * Thomas Dickey - 2009/9/12
@@ -91,7 +91,7 @@
}

static int
-ColOf(char *buffer, int length, int margin)
+ColOf(const char *buffer, int length, int margin)
{
   int n;
   int result;
Index: test/test_addwstr.c
Prereq:  1.22
---
 ncurses-6.5-20240928+/test/test_addwstr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_addwstr.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                *
 * Copyright 2009-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
```

```
 ****************************************************************************/
/*
- * $Id: test_addwstr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_addwstr.c,v 1.23 2024/10/05 19:27:33 tom Exp $
 *
 * Demonstrate the waddwstr() and wadd_wch
 functions.
 * Thomas Dickey - 2009/9/12
@@ -82,7 +82,7 @@
static int n_opt = -1;

static void
-legend(WINDOW *win, int level, Options state, wchar_t *buffer, int length)
+legend(WINDOW *win, int level, Options state, const wchar_t *buffer, int length)
{
   const char *showstate;

Index: test/test_endwin.c
Prereq:  1.2
--- ncurses-6.5-20240928+/test/test_endwin.c 2023-11-10 15:17:19.000000000 +0000
+++ ncurses-6.5-20241006/test/test_endwin.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2023 Thomas E. Dickey                                          *
+ * Copyright 2023,2024 Thomas E. Dickey                                     *
 *                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -26,7 +26,7 @@
  * authorization.                                           *
 ****************************************************************************/
/*
- * $Id: test_endwin.c,v 1.2 2023/11/10 15:17:19 tom Exp $
+ * $Id: test_endwin.c,v 1.3 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -67,7 +67,7 @@
   int rc_e1 = OK;
   int rc_e2 = OK;
   int rc_e3 = OK;
-   SCREEN *sp = NULL;
+    const SCREEN *sp = NULL;
   bool opt_e = FALSE;
   bool opt_i = FALSE;
   bool opt_n = FALSE;
Index: test/test_get_wstr.c
Prereq:  1.14
```

```
--- ncurses-6.5-20240928+/test/test_get_wstr.c 2022-12-10 23:59:13.000000000 +0000
+++ ncurses-6.5-20241006/test/test_get_wstr.c 2024-10-06 23:15:10.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2011,2017
 Free Software Foundation, Inc.                 *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_get_wstr.c,v 1.14 2022/12/10 23:59:13 tom Exp $
+ * $Id: test_get_wstr.c,v 1.16 2024/10/06 23:15:10 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -69,7 +69,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(const WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -138,7 +138,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-   static const char *help[] =
+   static NCURSES_CONST char *help[] =
   {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_getstr.c
Prereq:
  1.16
--- ncurses-6.5-20240928+/test/test_getstr.c 2022-12-10 23:58:37.000000000 +0000
+++ ncurses-6.5-20241006/test/test_getstr.c 2024-10-06 22:36:46.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020,2022 Thomas E. Dickey                                     *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2012,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
```

```
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                            *
 ****************************************************************************/
/*
- * $Id: test_getstr.c,v 1.16 2022/12/10 23:58:37 tom Exp $
+ * $Id: test_getstr.c,v 1.19 2024/10/06 22:36:46 tom Exp $
 *
 * Author: Thomas E Dickey
  *
@@ -76,7 +76,7 @@
}

static int
-Remainder(WINDOW *txtwin)
+Remainder(NCURSES_CONST WINDOW *txtwin)
{
   int result = getmaxx(txtwin) - getcurx(txtwin);
   return (result > 0) ? result : 0;
@@ -145,7 +145,7 @@
static int
recursive_test(int level, char **argv, WINDOW *strwin)
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
   {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
Index: test/test_instr.c
Prereq:  1.13
--- ncurses-6.5-20240928+/test/test_instr.c 2024-06-29 18:42:53.000000000 +0000
+++ ncurses-6.5-20241006/test/test_instr.c 2024-10-06 21:11:54.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                                            *
 ****************************************************************************/
/*
- * $Id: test_instr.c,v 1.13 2024/06/29 18:42:53 tom Exp $
+ * $Id: test_instr.c,v 1.15 2024/10/06 21:11:54 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -56,13 +56,13 @@
}

static
 void
-show_1st(WINDOW *win, int line, char *buffer)
+show_1st(WINDOW *win, int line, NCURSES_CONST char *buffer)
```

```
{
   MvWAddStr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, char *buffer)
+showmore(WINDOW *win, int line, NCURSES_CONST char *buffer)
{
   wmove(win, line, 0);
   wclrtoeol(win);
@@ -72,7 +72,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_inwstr.c
Prereq:  1.9
--- ncurses-6.5-20240928+/test/test_inwstr.c 2024-06-29 18:40:02.000000000 +0000
+++ ncurses-6.5-20241006/test/test_inwstr.c 2024-10-06 23:15:38.000000000 +0000
@@ -27,7 +27,7 @@
 * authorization.                                        *
 ****************************************************************************/
/*
- * $Id: test_inwstr.c,v
 1.9 2024/06/29 18:40:02 tom Exp $
+ * $Id: test_inwstr.c,v 1.11 2024/10/06 23:15:38 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -59,13 +59,13 @@
}

static void
-show_1st(WINDOW *win, int line, wchar_t *buffer)
+show_1st(WINDOW *win, int line, const wchar_t *buffer)
{
   (void) mvwaddwstr(win, line, 5, buffer);
}

static void
-showmore(WINDOW *win, int line, wchar_t *buffer)
+showmore(WINDOW *win, int line, const wchar_t *buffer)
{
   wmove(win, line, 0);
```

```
   wclrtoeol(win);
@@ -75,7 +75,7 @@
static void
show_help(WINDOW *win)
{
-    static const char *msgs[] =
+    static NCURSES_CONST char *msgs[] =
    {
 "Show file contents and a viewport from the variants of winwstr."
 ,"Use h/j/k/l or arrow keys to move the viewport."
Index: test/test_mouse.c
Prereq:  1.32
--- ncurses-6.5-20240928+/test/test_mouse.c 2024-08-31 10:46:01.000000000 +0000
+++ ncurses-6.5-20241006/test/test_mouse.c 2024-10-05 18:47:56.000000000 +0000
@@ -22,7 +22,7 @@
 * THE USE OR OTHER DEALINGS
 IN THE SOFTWARE.                        *
 ******************************************************************************/
/*
- * $Id: test_mouse.c,v 1.32 2024/08/31 10:46:01 Rafael.Kitover Exp $
+ * $Id: test_mouse.c,v 1.33 2024/10/05 18:47:56 tom Exp $
 *
 * Author: Leonid S Usov
 *
@@ -38,7 +38,7 @@
static void
raw_loop(void)
{
-    char *xtermcap;
+    const char *xtermcap;

    printf("Entering raw mode. Ctrl-c to quit.\n");

Index: test/test_opaque.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_opaque.c 2022-12-11 00:03:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_opaque.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2007-2008,2009 Free Software Foundation, Inc.                  *
 *                                                                          *
                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                           *
 ****************************************************************************/
```

```
/*
- * $Id: test_opaque.c,v 1.15 2022/12/11 00:03:10 tom Exp $
+ * $Id: test_opaque.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 *
 * Author: Thomas E Dickey
 *
@@ -157,13 +157,13 @@
}

static int
-status_y(WINDOW *stswin, int cell)
+status_y(const WINDOW *stswin, int cell)
{
   return (cell % getmaxy(stswin));
}

static int
-status_x(WINDOW *stswin, int cell)
+status_x(const WINDOW *stswin, int cell)
{
   return (15 * (cell / getmaxy(stswin)));
}
Index: test/test_sgr.c
Prereq:  1.22
--- ncurses-6.5-20240928+/test/test_sgr.c 2023-05-27 20:13:10.000000000 +0000
+++ ncurses-6.5-20241006/test/test_sgr.c 2024-10-06 21:05:50.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
 * Copyright 2019-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2019-2023,2024 Thomas E. Dickey                                *
 * Copyright 2015-2016,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
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@@ -30,7 +30,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_sgr.c,v 1.22 2023/05/27 20:13:10 tom Exp $
+ * $Id: test_sgr.c,v 1.25 2024/10/06 21:05:50 tom Exp $
 *
 * A simple demo of the sgr/sgr0 terminal capabilities.
 */
@@ -142,10 +142,10 @@
#define MASK_REV  (1 << 2)

static void
-dumpit(unsigned bits, unsigned ignore, const char *sgr, const char *sgr0)
```

```
+dumpit(unsigned bits, unsigned ignore, NCURSES_CONST char *sgr, NCURSES_CONST char *sgr0)
{
-    static const char sample[] = "abcdefghijklm";
-    static
 char params[] = "SURBDBIPA";
+    static NCURSES_CONST char sample[] = "abcdefghijklm";
+    static NCURSES_CONST char params[] = "SURBDBIPA";
    unsigned n;

    printf("%4u ", bits);
@@ -177,12 +177,11 @@
static void
brute_force(const char *name)
{
-    unsigned count;
-    char *my_sgr;
-    char *my_sgr0;
-    char *my_bold;
-    char *my_revs;
-    char *my_smso;
+    NCURSES_CONST char *my_sgr;
+    NCURSES_CONST char *my_sgr0;
+    NCURSES_CONST char *my_bold;
+    NCURSES_CONST char *my_revs;
+    NCURSES_CONST char *my_smso;
    char *my_name = strdup(name);

    if (db_list) {
@@ -219,6 +218,7 @@
 unsigned ignore = 0;
 unsigned reason = 0;
 unsigned repeat = 0;
+ unsigned count;
 for (count = 0; count < MAXSGR; ++count) {
     values[count] = tparm(my_sgr,
      BITS2P(1),
@@ -334,7 +334,7 @@
main(int argc, char *argv[])
{
    int ch;
-    char *name;
+    const char *name;

    while ((ch = getopt(argc, argv, OPTS_COMMON "d:e:nq")) != -1) {
 switch (ch)
 {
@@ -369,7 +369,7 @@
    } else if ((name = getenv("TERM")) != 0) {
```

```
 brute_force(name);
    } else {
- static char dumb[] = "dumb";
+ static const char dumb[] = "dumb";
 brute_force(dumb);
    }

Index: test/test_tparm.c
Prereq:  1.39
--- ncurses-6.5-20240928+/test/test_tparm.c 2023-11-11 01:00:03.000000000 +0000
+++ ncurses-6.5-20241006/test/test_tparm.c 2024-10-06 20:50:27.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2022,2023 Thomas E. Dickey                                *
+ * Copyright 2020-2023,2024 Thomas E. Dickey                                *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
 * copy of this software and associated documentation files (the            *
@@ -29,7 +29,7 @@
/*
 * Author: Thomas E. Dickey
 *
- * $Id: test_tparm.c,v 1.39 2023/11/11 01:00:03
 tom Exp $
+ * $Id: test_tparm.c,v 1.42 2024/10/06 20:50:27 tom Exp $
 *
 * Exercise tparm/tiparm, either for all possible capabilities with fixed
 * parameters, or one capability with specific combinations of parameters.
@@ -107,7 +107,7 @@
}

static int
-isNumeric(char *source)
+isNumeric(NCURSES_CONST char *source)
{
    char *next = 0;
    long value = strtol(source, &next, 0);
@@ -245,7 +245,7 @@
#define NS_9(fmt) NS_8(fmt), NumStr(8)

static void
-test_tparm(const char *name, const char *format, long *number, char **string)
+test_tparm(const char *name, NCURSES_CONST char *format, long *number, char **string)
{
    char *use_strings[MAX_PARM];
    char *result = NULL;
@@ -527,7 +527,7 @@
     }
```

```
 } else {
     char *s = t_opt;
-    char *t;
+    NCURSES_CONST char *t;
     while ((t = strtok(s, ",")) != 0) {
  s = 0;
  if (len_terms + 2 >= max_terms) {
@@ -603,7 +603,7 @@
#if NCURSES_XNAMES
     len_caps = std_caps;
     if (cur_term) {
-  TERMTYPE *term =
  (TERMTYPE *) cur_term;
+  NCURSES_CONST TERMTYPE *term = (TERMTYPE *) cur_term;
   for (n = STRCOUNT; n < NUM_STRINGS(term); ++n) {
      GrowArray(all_caps, max_caps, len_caps);
      GrowArray(cap_name, max_name, len_caps);
Index: test/test_vidputs.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/test_vidputs.c 2022-12-10 23:23:27.000000000 +0000
+++ ncurses-6.5-20241006/test/test_vidputs.c 2024-10-06 21:17:54.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
- * Copyright 2020-2021,2022 Thomas E. Dickey                                *
+ * Copyright 2020-2022,2024 Thomas E. Dickey                                *
 * Copyright 2013-2014,2017 Free Software Foundation, Inc.                  *
 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -27,7 +27,7 @@
 * authorization.                                                           *
 ****************************************************************************/
/*
- * $Id: test_vidputs.c,v 1.15 2022/12/10 23:23:27 tom Exp $
+ * $Id: test_vidputs.c,v 1.16 2024/10/06 21:17:54 tom Exp $
 *
 * Demonstrate the vidputs and vidattr functions.
 * Thomas Dickey - 2013/01/12
@@ -51,7 +51,7 @@
}

static bool
-outs(const char *s)
+outs(NCURSES_CONST char *s)
{
   if (VALID_STRING(s)) {
 tputs(s, 1, outc);
Index: test/testcurs.c
```

```
Prereq:  1.58
--- ncurses-6.5-20240928+/test/testcurs.c 2023-05-28 14:23:34.000000000 +0000
+++ ncurses-6.5-20241006/test/testcurs.c 2024-10-05 19:17:19.000000000 +0000
@@ -6,7 +6,7 @@
 *  wrs(5/28/93) -- modified to be consistent (perform identically) with either
 *                  PDCurses or under Unix System V, R4
 *
- * $Id: testcurs.c,v 1.58 2023/05/28 14:23:34 tom Exp $
+ * $Id: testcurs.c,v 1.59 2024/10/05 19:17:19 tom Exp $
 */

#include <test.priv.h>
@@ -245,7 +245,7 @@
 wclrtobot(win);
 if (c >= KEY_MIN)
     wprintw(win, "Key Pressed: %s", keyname(c));
- else if (isprint(c))
+ else if (isprint(UChar(c)))
    wprintw(win, "Key Pressed: %c", c);
 else
    wprintw(win, "Key Pressed: %s", unctrl(UChar(c)));
@@ -748,8 +748,8 @@
 keypad(stdscr, TRUE);
 raw();
 key = getch();
- if (key < KEY_MIN && key > 0 && isalpha(key)) {
-     if (islower(key))
+ if (key < KEY_MIN && key > 0 && isalpha(UChar(key))) {
+     if (islower(UChar(key)))
  key = toupper(key);
    for (n = 0; n < MAX_OPTIONS; ++n) {
  if (key == command[n].text[0]) {
Index: test/testscanw.c
Prereq:  1.15
--- ncurses-6.5-20240928+/test/testscanw.c 2022-12-11 00:10:29.000000000 +0000
+++ ncurses-6.5-20241006/test/testscanw.c 2024-10-05 19:27:33.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
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 *                                                                          *
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 *                                                                          *
 * Permission is hereby granted, free of charge, to any person obtaining a  *
@@ -30,7 +30,7 @@
 * Date:  1997/03/17
 * From:  bayern@morpheus.cis.yale.edu
 *
```

```
- * $Id: testscanw.c,v 1.15 2022/12/11 00:10:29 tom Exp $
+ * $Id: testscanw.c,v 1.16 2024/10/05 19:27:33 tom Exp $
 */
#include <test.priv.h>

@@ -85,7 +85,7 @@
    curses_trace(TRACE_UPDATE | TRACE_CALLS);
#endif
    while (optind < argc) {
- char *token = argv[optind++];
+ const char *token = argv[optind++];
 if (isdigit(UChar(*token)))
     move(atoi(token), 0);
 else if (!strcmp(token, "k+"))
Index: test/view.c
Prereq:  1.145
--- ncurses-6.5-20240928+/test/view.c 2022-12-04 00:40:11.000000000 +0000
+++ ncurses-6.5-20241006/test/view.c 2024-10-06 21:08:05.000000000 +0000
@@ -1,5 +1,5 @@
/****************************************************************************
-
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@@ -52,7 +52,7 @@
 * scroll operation worked, and the refresh() code only had to do a
 * partial repaint.
 *
- * $Id: view.c,v 1.145 2022/12/04 00:40:11 tom Exp $
+ * $Id: view.c,v 1.147 2024/10/06 21:08:05 tom Exp $
 */

#include <test.priv.h>
@@ -93,8 +93,7 @@

#if USE_WIDEC_SUPPORT
    for (;;) {
- int count;
- TEST_CCHAR(src, count, {
+ TEST_CCHAR(src, {
     int len = wcwidth(test_wch[0]);
     result += (len > 0) ? len : 1;
     ++src;
@@ -186,12 +185,10 @@
     */
    {
```

```
  int j;
-  int width = 1;
+  int width;

  for (j = actual = 0; j < shift; ++j) {
-      int count;
-
-
    TEST_CCHAR(s + j, count, {
+      TEST_CCHAR(s + j, {
   width = wcwidth(test_wch[0]);
      }
     , {
@@ -294,7 +291,7 @@

#if USE_WIDEC_SUPPORT
    if (!memcmp("\357\273\277", my_blob, 3)) {
- char *s = my_blob + 3;
+ const char *s = my_blob + 3;
 char *d = my_blob;
 Trace(("trim BOM"));
 do {
@@ -329,7 +326,7 @@
 char *s;
 int y, x;
#if USE_WIDEC_SUPPORT
- char *last = my_vec[k] + (int) strlen(my_vec[k]);
+ const char *last = my_vec[k] + (int) strlen(my_vec[k]);
 wchar_t wch[2];
 size_t rc;
#ifndef state_unused
@@ -408,7 +405,7 @@
int
main(int argc, char *argv[])
{
-    static const char *help[] =
+    static NCURSES_CONST char *help[] =
    {
 "Commands:",
 "  q,^Q,ESC       - quit this program",
@@ -659,7 +656,7 @@
     beep();
     break;
 }
- if (c >= KEY_MIN || (c > 0 && !isdigit(c))) {
+ if (c >= KEY_MIN || (c > 0 && !isdigit(UChar(c)))) {
     got_number = FALSE;
     value = 0;
```

}

Found in path(s):
* /opt/cola/permits/2303554631_1736345227.5550623/0/ncurses-6-5-20241006-patch-gz/ncurses-6.5-20241006.patch

1.47 scanelf 1.3.8-r1

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1.48 libssl3 3.3.2-r4

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# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
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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
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
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="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$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"
```

1.57 alpine-base 3.21.2-r0

1.57.1 Available under license :

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Parts Copyright (c) 1994 by Anthony Dekker
The Kohonen neural network code for color optimization was written by Anthony Dekker.

Parts Copyright (c) 1995 by C. Blanc and C. Schlick
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: Natanael Copa <ncopa@alpinelinux.org>
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=alpine-base
pkgver=3.21.2
pkgrel=0
pkgdesc="Meta package for minimal alpine base"
url="https://alpinelinux.org"
arch="noarch"
license="MIT"
depends="
 alpine-baselayout
 alpine-conf
 alpine-release
 apk-tools
 busybox
 busybox-mdev-openrc
 busybox-openrc
 busybox-suid
 musl-utils
 openrc
 "
subpackages="alpine-release:release"
replaces="alpine-baselayout"
options="!check"

package() {
 mkdir -p "$pkgdir"
}

release() {
 depends="alpine-keys"
 pkgdesc="Alpine release data"

 mkdir -p "$subpkgdir"/etc
 # create /etc/alpine-release
 echo $pkgver > "$subpkgdir"/etc/alpine-release
 local _ver="$(echo "$pkgver" | grep -E -o '^[0-9]+\.[0-9]+')"
 local _rel="v$_ver"
 case "$pkgver" in
 *_alpha*|*_beta*|*_pre*)
  _ver="$pkgver (edge)"
  _rel="edge"
  ;;
 esac
```

```
 # create /etc/issue
 cat >"$subpkgdir"/etc/issue<<EOF
Welcome to Alpine Linux $_ver
Kernel \\r on an \\m (\\l)

EOF

 # create
 os-release
 mkdir -p "$subpkgdir"/usr/lib
 cat >"$subpkgdir"/usr/lib/os-release<<EOF
NAME="Alpine Linux"
ID=alpine
VERSION_ID=$pkgver
PRETTY_NAME="Alpine Linux $_rel"
HOME_URL="https://alpinelinux.org/"
BUG_REPORT_URL="https://gitlab.alpinelinux.org/alpine/aports/-/issues"
EOF
 ln -s ../usr/lib/os-release "$subpkgdir"/etc/os-release

 # create secfixes.d repository list
 mkdir -p "$subpkgdir"/etc/secfixes.d
 cat >"$subpkgdir"/etc/secfixes.d/alpine<<EOF
https://secdb.alpinelinux.org/$_rel/main.json
https://secdb.alpinelinux.org/$_rel/community.json
EOF
}
```

```
 Vintage Dreams Waves v 2.0. for Creative Labs' AWE Soundcards
(EMU Soundfont 2 Format)

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vintagedreamworks@hotmail.com
http://www.geocities.com/SiliconValley/Campus/8645/index.html
http://members.nbci.com/silicon39/
http://www.mp3.com/silicon39
https://analoguesque.x10host.com/
```

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mini_sendmail - accept email on behalf of real sendmail

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1.58 x-crypto 0.32.0

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1.59 aws-sdk-go 1.55.6

1.59.1 Available under license :

{
 "version": "2.0",
 "service": " With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. ",
 "operations": {
  "AssociateUser": " Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",

```
  "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
  "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
  "ListIdentityProviders":
 "<p>Lists the identity providers for user-based subscriptions.</p>",
  "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
  "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
  "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
  "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
  "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly charges</a> in the <i>Amazon Web
 Services Billing User Guide</i>.</p> </note>",
  "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>",
  "UpdateIdentityProviderSettings": "<p>Updates additional product configuration settings for the registered identity provider.</p>"
 },
 "shapes": {
  "AccessDeniedException": {
   "base": "<p>You don't have sufficient access to perform this action.</p>",
   "refs": {
   }
  },
  "ActiveDirectoryIdentityProvider": {
   "base": "<p>Details about an Active Directory identity provider.</p>",
   "refs": {
    "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"
   }
  },
  "AssociateUserRequest": {
   "base": null,
   "refs": {
   }
  },
  "AssociateUserResponse": {
   "base": null,
   "refs": {
   }
  },
  "BoxInteger": {
   "base": null,
   "refs": {
    "ListIdentityProvidersRequest$MaxResults":
```

" Maximum number of results to return in a single call. ",
"ListInstancesRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListProductSubscriptionsRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListUserAssociationsRequest$MaxResults": " Maximum number of results to return in a single call. "
}
},
"ConflictException": {
"base": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": " A
filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. ",
"refs": {
"FilterList$member": null
}
},
"FilterList": {
"base": null,
"refs": {
"ListInstancesRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListProductSubscriptionsRequest$Filters": " An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. ",
"ListUserAssociationsRequest$Filters": " An array of structures that you can use to filter the results to those

```
that match one or more sets of key-value pairs that you specify.</p>"
    }
  },
  "IdentityProvider": {
    "base": "<p>Details about an identity provider.</p>",
    "refs": {
      "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
      "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
      "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
      "RegisterIdentityProviderRequest$IdentityProvider":
 "<p>An object that specifies details for the identity provider.</p>",
      "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity
provider.</p>",
      "UpdateIdentityProviderSettingsRequest$IdentityProvider": null
    }
  },
  "IdentityProviderSummary": {
    "base": "<p>Describes an identity provider.</p>",
    "refs": {
      "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
      "IdentityProviderSummaryList$member": null,
      "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an
identity provider operation.</p>",
      "UpdateIdentityProviderSettingsResponse$IdentityProviderSummary": null

    }
  },
  "IdentityProviderSummaryList": {
    "base": null,
    "refs": {
      "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata that describes the list identity
providers operation.</p>"
    }
  },
  "InstanceSummary": {
```

```
    "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "InstanceSummaryList$member": null
    }
  },
  "InstanceSummaryList": {
    "base": null,
    "refs": {
      "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
    }
  },
  "InstanceUserSummary": {
    "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
    "refs": {
      "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
      "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",

    "InstanceUserSummaryList$member": null
    }
  },
  "InstanceUserSummaryList": {
    "base": null,
    "refs": {
      "ListUserAssociationsResponse$InstanceUserSummaries": "<p>Metadata that describes the list user association
operation.</p>"
    }
  },
  "InternalServerException": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "ListIdentityProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListIdentityProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListInstancesRequest": {
    "base": null,
    "refs": {
    }
```

```
  },
  "ListInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListProductSubscriptionsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListProductSubscriptionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUserAssociationsRequest": {
    "base": null,
    "refs": {
     }
  },
  "ListUserAssociationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ProductUserSummary": {
    "base": "<p>The summary of the user-based subscription products for a user.</p>",
    "refs": {
      "ProductUserSummaryList$member": null,
      "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>",
      "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product subscription operation.</p>"
    }
  },
  "ProductUserSummaryList": {
    "base": null,
    "refs": {
      "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product subscriptions operation.</p>"
    }
  },
  "RegisterIdentityProviderRequest": {
    "base": null,
    "refs": {
    }
  },
```

```
  "RegisterIdentityProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "ResourceNotFoundException":
{
    "base": "<p>The resource couldn't be found.</p>",
    "refs": {
    }
  },
  "SecurityGroup": {
    "base": null,
    "refs": {
      "Settings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers.</p>",
      "UpdateSettings$SecurityGroupId": "<p>A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers.</p>"
    }
  },
  "ServiceQuotaExceededException": {
    "base": "<p>The request failed because a service quota is exceeded.</p>",
    "refs": {
    }
  },
  "Settings": {
    "base": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication
 from resources in the VPC.</p>",
    "refs": {
      "IdentityProviderSummary$Settings": "<p>An object that details the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
      "RegisterIdentityProviderRequest$Settings": "<p>The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>"
    }
  },
  "SettingsSubnetsList": {
    "base": null,
    "refs": {
      "Settings$Subnets": "<p>The subnets defined for the registered identity provider.</p>"
    }
  },
  "StartProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
```

```
  "StartProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "StopProductSubscriptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "String":
 {
    "base": null,
    "refs": {
      "AccessDeniedException$message": null,
      "ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
      "AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",
      "AssociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "AssociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",
      "ConflictException$message": null,
      "DeregisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
      "DisassociateUserRequest$Domain": "<p>The domain name of the user.</p>",
      "DisassociateUserRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "DisassociateUserRequest$Username": "<p>The user name from the identity provider for the user.</p>",

   "Filter$Attribute": "<p>The name of an attribute to use as a filter.</p>",
      "Filter$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",
      "Filter$Value": "<p>Value of the filter.</p>",
      "IdentityProviderSummary$FailureMessage": "<p>The failure message associated with an identity
provider.</p>",
      "IdentityProviderSummary$Product": "<p>The name of the user-based subscription product.</p>",
      "IdentityProviderSummary$Status": "<p>The status of an identity provider.</p>",
      "InstanceSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "InstanceSummary$LastStatusCheckDate": "<p>The date of the last status check.</p>",
      "InstanceSummary$Status": "<p>The status of an EC2 instance resource.</p>",
      "InstanceSummary$StatusMessage": "<p>The status message for an EC2 instance.</p>",
      "InstanceUserSummary$AssociationDate": "<p>The date a user was associated with an
 EC2 instance.</p>",
      "InstanceUserSummary$DisassociationDate": "<p>The date a user was disassociated from an EC2
```

```
instance.</p>",
      "InstanceUserSummary$Domain": "<p>The domain name of the user.</p>",
      "InstanceUserSummary$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "InstanceUserSummary$Status": "<p>The status of a user associated with an EC2 instance.</p>",
      "InstanceUserSummary$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",
      "InstanceUserSummary$Username": "<p>The user name from the identity provider for the user.</p>",
      "InternalServerException$message": null,
      "ListIdentityProvidersRequest$NextToken": "<p>Token for the next set of results.</p>",
      "ListIdentityProvidersResponse$NextToken": "<p>Token for the next set of results.</p>",
      "ListInstancesRequest$NextToken": "<p>Token for the next set of results.</p>",
      "ListInstancesResponse$NextToken":
 "<p>Token for the next set of results.</p>",
      "ListProductSubscriptionsRequest$NextToken": "<p>Token for the next set of results.</p>",
      "ListProductSubscriptionsRequest$Product": "<p>The name of the user-based subscription product.</p>",
      "ListProductSubscriptionsResponse$NextToken": "<p>Token for the next set of results.</p>",
      "ListUserAssociationsRequest$InstanceId": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
      "ListUserAssociationsRequest$NextToken": "<p>Token for the next set of results.</p>",
      "ListUserAssociationsResponse$NextToken": "<p>Token for the next set of results.</p>",
      "ProductUserSummary$Domain": "<p>The domain name of the user.</p>",
      "ProductUserSummary$Product": "<p>The name of the user-based subscription product.</p>",
      "ProductUserSummary$Status": "<p>The status of a product for a user.</p>",
      "ProductUserSummary$StatusMessage": "<p>The status
 message for a product for a user.</p>",
      "ProductUserSummary$SubscriptionEndDate": "<p>The end date of a subscription.</p>",
      "ProductUserSummary$SubscriptionStartDate": "<p>The start date of a subscription.</p>",
      "ProductUserSummary$Username": "<p>The user name from the identity provider of the user.</p>",
      "RegisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
      "ResourceNotFoundException$message": null,
      "ServiceQuotaExceededException$message": null,
      "StartProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
      "StartProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
      "StartProductSubscriptionRequest$Username": "<p>The user name from the identity provider of the user.</p>",
      "StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
      "StopProductSubscriptionRequest$Product":
 "<p>The name of the user-based subscription product.</p>",
      "StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
      "StringList$member": null,
      "ThrottlingException$message": null,
      "UpdateIdentityProviderSettingsRequest$Product": "<p>The name of the user-based subscription
product.</p>",
      "ValidationException$message": null
    }
  },
  "StringList": {
    "base": null,
```

```
    "refs": {
      "InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
    }
  },
  "Subnet": {
    "base": null,
    "refs": {
      "SettingsSubnetsList$member": null,
      "Subnets$member": null
    }
  },
  "Subnets": {
    "base": null,
    "refs": {
      "UpdateSettings$AddSubnets": "<p>The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers.</p>",
      "UpdateSettings$RemoveSubnets":
 "<p>The ID of one or more subnets to remove.</p>"
    }
  },
  "ThrottlingException": {
    "base": "<p>The request was denied because of request throttling. Retry the request.</p>",
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateIdentityProviderSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateSettings": {
    "base": "<p>Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints.</p>",
    "refs": {
      "UpdateIdentityProviderSettingsRequest$UpdateSettings": "<p>Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li> <p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to remove the VPC endpoints
 from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC endpoints.</p> </li> </ul>"
    }
  },
  "ValidationException": {
    "base": "<p>A parameter is not valid.</p>",
```

```
    "refs": {
    }
  }
 }
}
{
  "version": "1.0",
  "parameters": {
    "Region": {
      "builtIn": "AWS::Region",
      "required": false,
      "documentation": "The AWS region used to dispatch the request.",
      "type": "String"
    },
    "UseDualStack": {
      "builtIn": "AWS::UseDualStack",
      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "Boolean"
    },
    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
      "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
      "type": "Boolean"
    },
    "Endpoint": {

   "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
    }
  },
  "rules": [
    {
      "conditions": [
        {
          "fn": "aws.partition",
          "argv": [
            {
              "ref": "Region"
            }
          ],
```

```
        "assign": "PartitionResult"
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]
          },
          {
            "fn": "parseURL",

           "argv": [
              {
                "ref": "Endpoint"
              }
            ],
            "assign": "url"
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
```

```
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },

              {
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseFIPS"
              },
              true
            ]

},
          {
            "fn": "booleanEquals",
            "argv": [
              {
                "ref": "UseDualStack"
              },
```

```
                true
            ]
        }
    ],
    "type": "tree",
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"

},
                                "supportsFIPS"
                            ]
                        }
                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }

        ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
```

```
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ]
    },
    {
        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
        "type": "error"
    }
  ]
},

{
    "conditions": [
      {
        "fn": "booleanEquals",
        "argv": [
          {
            "ref": "UseFIPS"
          },
          true
        ]
      }
    ],
    "type": "tree",
    "rules": [
      {
        "conditions": [
          {
            "fn": "booleanEquals",
            "argv": [
              true,
              {
                "fn": "getAttr",
                "argv": [
                  {
                    "ref": "PartitionResult"
                  },
                  "supportsFIPS"
                ]
              }
            ]
          }
        ],
        "type": "tree",
```

```
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ]
            },
            {

        "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ]
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "type": "tree",
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,

        {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
```

```
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "type": "tree",
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {
                        "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                        "properties": {},

            "headers": {}
                    },
                    "type": "endpoint"
                }
            ]
        },
        {
            "conditions": [],
            "error": "DualStack is enabled but this partition does not support DualStack",
            "type": "error"
        }
      ]
    },
    {
      "conditions": [],
      "endpoint": {
        "url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",
        "properties": {},
        "headers": {}
      },
      "type": "endpoint"
    }
  ]
 }
}
{
 "version": "2.0",
 "service": "<p>With License Manager, you can discover and track your commercial Linux subscriptions on running
Amazon EC2 instances.</p>",
 "operations": {
  "DeregisterSubscriptionProvider": "<p>Remove a third-party subscription provider from the Bring Your Own
License (BYOL) subscriptions registered to your account.</p>",
```

```
  "GetRegisteredSubscriptionProvider": "<p>Get details for a Bring Your Own License (BYOL) subscription that's registered to your account.</p>",
  "GetServiceSettings": "<p>Lists the Linux subscriptions service settings for your account.</p>",
  "ListLinuxSubscriptionInstances": "<p>Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions.</p>",
  "ListLinuxSubscriptions": "<p>Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations.</p>",
  "ListRegisteredSubscriptionProviders":
 "<p>List Bring Your Own License (BYOL) subscription registration resources for your account.</p>",
  "ListTagsForResource": "<p>List the metadata tags that are assigned to the specified Amazon Web Services resource.</p>",
  "RegisterSubscriptionProvider": "<p>Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription.</p>",
  "TagResource": "<p>Add metadata tags to the specified Amazon Web Services resource.</p>",
  "UntagResource": "<p>Remove one or more metadata tag from the specified Amazon Web Services resource.</p>",
  "UpdateServiceSettings": "<p>Updates the service settings for Linux subscriptions.</p>"
 },
 "shapes": {
  "Boolean": {
   "base": null,
   "refs": {
    "UpdateServiceSettingsRequest$AllowUpdate": "<p>Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate Linux subscription data in more than one home Region.</p>"
    }
  },
  "BoxInteger": {
   "base": null,
   "refs": {
    "ListLinuxSubscriptionInstancesRequest$MaxResults": "<p>The maximum items to return in a request.</p>",
    "ListLinuxSubscriptionsRequest$MaxResults": "<p>The maximum items to return in a request.</p>"
   }
  },
  "BoxLong": {
   "base": null,
   "refs": {
    "Subscription$InstanceCount": "<p>The total amount of running instances using this subscription.</p>"
   }
  },
  "DeregisterSubscriptionProviderRequest": {
   "base": null,
   "refs": {
   }
  },
  "DeregisterSubscriptionProviderResponse": {
   "base": null,
   "refs": {
```

```
    }
  },
  "Filter": {
    "base": "<p>A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria.</p>",
    "refs": {
      "FilterList$member": null
    }
  },
  "FilterList": {
    "base": null,
    "refs": {

  "ListLinuxSubscriptionInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>.</p> <p>For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:</p> <ul> <li> <p> <code>AccountID</code> </p> </li> <li> <p> <code>AmiID</code> </p> </li> <li> <p> <code>DualSubscription</code> </p> </li> <li> <p> <code>InstanceID</code> </p> </li> <li> <p> <code>InstanceType</code> </p> </li> <li> <p> <code>ProductCode</code> </p> </li> <li> <p> <code>Region</code> </p> </li> <li> <p> <code>Status</code> </p> </li> <li> <p> <code>UsageOperation</code> </p> </li> </ul> <p>For each filter, you can use one of the following <code>Operator</code> values to define the behavior
 of the filter:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>",
      "ListLinuxSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name.</p> <p>The valid names for this filter are:</p> <ul> <li> <p> <code>Subscription</code> </p> </li> </ul> <p>The valid Operators for this filter are:</p> <ul> <li> <p> <code>contains</code> </p> </li> <li> <p> <code>equals</code> </p> </li> <li> <p> <code>Notequal</code> </p> </li> </ul>"
    }
  },
  "GetRegisteredSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetRegisteredSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
```

```
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Instance": {
    "base": "<p>Details discovered information about a running instance using Linux subscriptions.</p>",
    "refs": {
      "InstanceList$member": null
    }
  },
  "InstanceList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesResponse$Instances": "<p>An array that contains instance objects.</p>"
    }
  },
  "InternalServerException": {
    "base": "<p>An exception occurred with the service.</p>",
    "refs": {
    }
  },
  "LinuxSubscriptionsDiscovery": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscovery": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscovery": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
    }
  },
  "LinuxSubscriptionsDiscoverySettings": {
    "base": "<p>Lists the settings defined for discovering Linux subscriptions.</p>",
    "refs": {
      "GetServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>Lists the settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
      "UpdateServiceSettingsRequest$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>",
      "UpdateServiceSettingsResponse$LinuxSubscriptionsDiscoverySettings": "<p>The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
    }
  },
```

```
  "ListLinuxSubscriptionInstancesRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases.</p>",
    "refs": {
    }
  },
  "ListLinuxSubscriptionInstancesRequestNextTokenString": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionInstancesRequest$NextToken": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  },
  "ListLinuxSubscriptionInstancesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequest": {
    "base": "<p>NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases.</p>",
    "refs": {
    }
  },
  "ListLinuxSubscriptionsRequestNextTokenString":
{
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsRequest$NextToken": "<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
    }
  },
  "ListLinuxSubscriptionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListRegisteredSubscriptionProvidersRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger": {
    "base": null,
    "refs": {
      "ListRegisteredSubscriptionProvidersRequest$MaxResults": "<p>The maximum items to return in a request.</p>"
    }
```

```
  },
  "ListRegisteredSubscriptionProvidersResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "Operator": {
    "base": null,
    "refs":
{
      "Filter$Operator": "<p>An operator for filtering results.</p>"
    }
  },
  "OrganizationIntegration": {
    "base": null,
    "refs": {
      "LinuxSubscriptionsDiscoverySettings$OrganizationIntegration": "<p>Details if you have enabled resource
discovery across your accounts in Organizations.</p>"
    }
  },
  "ProductCodeList": {
    "base": null,
    "refs": {
      "Instance$ProductCode": "<p>The product code for the instance. For more information, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-
operation.html\">Usage operation values</a> in the <i>License Manager User Guide</i> .</p>"
    }
  },
  "RegisterSubscriptionProviderRequest": {
    "base": null,
    "refs": {
    }
  },
  "RegisterSubscriptionProviderResponse": {
    "base": null,
    "refs": {
    }
  },
```

```
  "RegisteredSubscriptionProvider": {
    "base": "<p>A third-party provider for operating system
 (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux
subscription provider, License Manager can get subscription data from the registered provider.</p>",
    "refs": {
      "RegisteredSubscriptionProviderList$member": null
    }
  },
  "RegisteredSubscriptionProviderList": {
    "base": null,
    "refs": {
      "ListRegisteredSubscriptionProvidersResponse$RegisteredSubscriptionProviders": "<p>The list of BYOL
registration resources that fit the criteria you specified in the request.</p>"
    }
  },
  "ResourceNotFoundException": {
    "base": "<p>Unable to find the requested Amazon Web Services resource.</p>",
    "refs": {
    }
  },
  "SecretArn": {
    "base": null,
    "refs": {
      "GetRegisteredSubscriptionProviderResponse$SecretArn": "<p>The Amazon Resource Name (ARN) of the
third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the
request.</p>",
      "RegisterSubscriptionProviderRequest$SecretArn": "<p>The Amazon Resource Name (ARN) of the secret
where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red
Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token.</p>",
      "RegisteredSubscriptionProvider$SecretArn": "<p>The Amazon Resource Name (ARN) of the Secrets Manager
secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is
the offline token.</p>"
    }
  },
  "Status": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>",
      "UpdateServiceSettingsResponse$Status": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
    }
  },
  "String": {
    "base": null,
    "refs": {
      "Filter$Name": "<p>The type of name to filter by.</p>",
```

"GetRegisteredSubscriptionProviderResponse$LastSuccessfulDataRetrievalTime": " The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. ",
"GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatusMessage": " The detailed message from your subscription provider token status. ",
"Instance$AccountID": " The account ID which owns the instance. ",
"Instance$AmiId": " The AMI ID used to launch the instance. ",
"Instance$DualSubscription": " Indicates that you have two different license subscriptions for the same software on your instance. ",
"Instance$InstanceID": " The instance ID of the resource. ",
"Instance$InstanceType": " The instance type of the resource. ",
"Instance$LastUpdatedTime": " The time in which the last discovery updated the instance details. ",
"Instance$OsVersion":
" The operating system software version that runs on your instance. ",
"Instance$Region": " The Region the instance is running in. ",
"Instance$RegisteredWithSubscriptionProvider": " Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. ",
"Instance$Status": " The status of the instance. ",
"Instance$SubscriptionName": " The name of the license subscription that the instance uses. ",
"Instance$SubscriptionProviderCreateTime": " The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. ",
"Instance$SubscriptionProviderUpdateTime": " The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. ",
"Instance$UsageOperation": " The usage operation of the instance. For more information,
see For more information, see Usage operation values in the License Manager User Guide. ",
"InternalServerException$message": null,
"ListLinuxSubscriptionInstancesResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListLinuxSubscriptionsResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ListRegisteredSubscriptionProvidersRequest$NextToken": " A token to specify where to start paginating. This is the nextToken from a
previously truncated response. ",
"ListRegisteredSubscriptionProvidersResponse$NextToken": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. ",
"ProductCodeList$member": null,
"RegisterSubscriptionProviderResponse$SubscriptionProviderArn": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. ",
"RegisteredSubscriptionProvider$LastSuccessfulDataRetrievalTime": " The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. ",
"RegisteredSubscriptionProvider$SubscriptionProviderStatusMessage": " A detailed message that's associated with your BYOL subscription provider token status. ",

```
      "ResourceNotFoundException$message":
 null,
      "StringMap$key": null,
      "StringMap$value": null,
      "Subscription$Name": "<p>The name of the subscription.</p>",
      "Subscription$Type": "<p>The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS.</p>",
      "TagKeyList$member": null,
      "Tags$key": null,
      "Tags$value": null,
      "ThrottlingException$message": null,
      "ValidationException$message": null
    }
  },
  "StringList": {
    "base": null,
    "refs": {
      "Filter$Values": "<p>One or more values for the name to filter by.</p>",
      "GetServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>",
      "LinuxSubscriptionsDiscoverySettings$SourceRegions":
 "<p>The Regions in which to discover data for Linux subscriptions.</p>",
      "UpdateServiceSettingsResponse$HomeRegions": "<p>The Region in which License Manager displays the aggregated data for Linux subscriptions.</p>"
    }
  },
  "StringListMemberString": {
    "base": null,
    "refs": {
      "StringList$member": null
    }
  },
  "StringMap": {
    "base": null,
    "refs": {
      "GetServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>",
      "UpdateServiceSettingsResponse$StatusMessage": "<p>A message which details the Linux subscriptions service settings current status.</p>"
    }
  },
  "Subscription": {
    "base": "<p>An object which details a discovered Linux subscription.</p>",
    "refs": {
      "SubscriptionList$member": null
    }
```

```
  },
  "SubscriptionList": {
    "base": null,
    "refs": {
      "ListLinuxSubscriptionsResponse$Subscriptions":
 "<p>An array that contains subscription objects.</p>"
    }
  },
  "SubscriptionProviderArn": {
    "base": null,
    "refs": {
      "DeregisterSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN)
of the subscription provider resource to deregister.</p>",
      "GetRegisteredSubscriptionProviderRequest$SubscriptionProviderArn": "<p>The Amazon Resource Name
(ARN) of the BYOL registration resource to get details for.</p>",
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderArn": "<p>The Amazon Resource Name
(ARN) for the BYOL registration resource specified in the request.</p>",
      "ListTagsForResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the resource for
which to list metadata tags.</p>",
      "RegisteredSubscriptionProvider$SubscriptionProviderArn": "<p>The Amazon Resource Name (ARN) of the
Linux subscription provider resource that you registered.</p>",
       "TagResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to which to add the specified metadata tags.</p>",
      "UntagResourceRequest$resourceArn": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to remove the metadata tags from.</p>"
    }
  },
  "SubscriptionProviderSource": {
    "base": null,
    "refs": {
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderSource": "<p>The subscription provider for
the BYOL registration resource specified in the request.</p>",
      "RegisterSubscriptionProviderRequest$SubscriptionProviderSource": "<p>The supported Linux subscription
provider to register.</p>",
      "RegisterSubscriptionProviderResponse$SubscriptionProviderSource": "<p>The Linux subscription provider
that you registered.</p>",
      "RegisteredSubscriptionProvider$SubscriptionProviderSource": "<p>A supported third-party Linux
subscription provider. License
 Manager currently supports Red Hat subscriptions.</p>",
      "SubscriptionProviderSourceList$member": null
    }
  },
  "SubscriptionProviderSourceList": {
    "base": null,
    "refs": {
      "ListRegisteredSubscriptionProvidersRequest$SubscriptionProviderSources": "<p>To filter your results,
specify which subscription providers to return in the list.</p>"
    }
```

```
  },
  "SubscriptionProviderStatus": {
    "base": null,
    "refs": {
      "GetRegisteredSubscriptionProviderResponse$SubscriptionProviderStatus": "<p>The status of the Linux subscription provider access token from the last successful subscription data request.</p>",
      "RegisterSubscriptionProviderResponse$SubscriptionProviderStatus": "<p>Indicates the status of the registration action for the Linux subscription provider that you requested.</p>",
      "RegisteredSubscriptionProvider$SubscriptionProviderStatus": "<p>Indicates the status of your registered Linux subscription provider access
 token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token.</p>"
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$tagKeys": "<p>A list of metadata tag keys to remove from the requested resource.</p>"
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "Tags": {
    "base": null,
    "refs": {
      "ListTagsForResourceResponse$tags": "<p>The metadata tags for the requested resource.</p>",
      "RegisterSubscriptionProviderRequest$Tags": "<p>The metadata tags to assign to your registered Linux subscription provider resource.</p>",
      "TagResourceRequest$tags": "<p>The metadata tags to assign to the Amazon Web Services resource. Tags are formatted as key value pairs.</p>"
    }
  },
  "ThrottlingException": {
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    }
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 }
}
```

AWS SDK for Go

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        "UseDualStack": true
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            "UseDualStack": true
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            "Region": "us-east-1",
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            "UseDualStack": false,
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            "UseDualStack": true,
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  "signatureVersion":"v4",
  "targetPrefix":"AWSLicenseManager",
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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
   ]
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    "requestUri":"/"
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    {"shape":"AuthorizationException"},
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   ]
  },
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   "http":{
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  "output":{"shape":"GetLicenseUsageResponse"},
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  "output":{"shape":"GetServiceSettingsResponse"},
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    ]
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    "output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
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  "name":"ListLicenseConfigurations",
  "http":{
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  "input":{"shape":"ListLicenseConfigurationsRequest"},
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  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseConversionTasks":{
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  "http":{
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  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseManagerReportGenerators":{
  "name":"ListLicenseManagerReportGenerators",
   "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
  "output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
```

```
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
     {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
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    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},
```

```
    {"shape":"InvalidParameterValueException"},
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListReceivedGrants":{
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  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
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    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedGrantsForOrganization":{
  "name":"ListReceivedGrantsForOrganization",
  "http":{
    "method":"POST",
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  "input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
  "output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
  "errors":[
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    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
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    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicensesForOrganization":{
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  "http":{
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  "output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
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  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
   "errors":[
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    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
```

```
  },
  "ListTagsForResource":{
    "name":"ListTagsForResource",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListTagsForResourceRequest"},
    "output":{"shape":"ListTagsForResourceResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "ListTokens":{
    "name":"ListTokens",
    "http":{
      "method":"POST",

  "requestUri":"/"
    },
    "input":{"shape":"ListTokensRequest"},
    "output":{"shape":"ListTokensResponse"},
    "errors":[
      {"shape":"ValidationException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"},
      {"shape":"ServerInternalException"}
    ]
  },
  "ListUsageForLicenseConfiguration":{
    "name":"ListUsageForLicenseConfiguration",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
    "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"FilterLimitExceededException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
```

```
    {"shape":"RateLimitExceededException"}
   ]
  },
  "RejectGrant":{
    "name":"RejectGrant",
   "http":{
    "method":"POST",
    "requestUri":"/"
   },
   "input":{"shape":"RejectGrantRequest"},
   "output":{"shape":"RejectGrantResponse"},
   "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
   ]
  },
  "TagResource":{
   "name":"TagResource",
   "http":{
    "method":"POST",
    "requestUri":"/"
   },
   "input":{"shape":"TagResourceRequest"},
   "output":{"shape":"TagResourceResponse"},
   "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
   ]
  },
  "UntagResource":{
   "name":"UntagResource",
   "http":{
    "method":"POST",
    "requestUri":"/"
   },
   "input":{"shape":"UntagResourceRequest"},
   "output":{"shape":"UntagResourceResponse"},
   "errors":[
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    {"shape":"ServerInternalException"},
```

```
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
     {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
  "errors":[
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    {"shape":"InvalidParameterValueException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
```

```
  },
    "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
    "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
    "errors":[
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      {"shape":"InvalidResourceStateException"},
      {"shape":"LicenseUsageException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ]
  },
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
      {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
     ]
  }
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
```

```
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "ActivationOverrideBehavior":{
    "type":"string",
    "enum":[
      "DISTRIBUTED_GRANTS_ONLY",
      "ALL_GRANTS_PERMITTED_BY_ISSUER"
    ]
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
      "ExtendConsumptionLicense",
      "ListPurchasedLicenses",
      "CreateToken"
    ]
  },
  "AllowedOperationList":{
     "type":"list",
    "member":{"shape":"AllowedOperation"},
    "max":7,
    "min":1
  },
  "Arn":{
    "type":"string",
    "max":2048,
    "pattern":"^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
  },
  "ArnList":{
    "type":"list",
    "member":{"shape":"Arn"}
  },
  "AuthorizationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "AutomatedDiscoveryInformation":{
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  "type":"structure",
  "members":{
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  }
},
"Boolean":{"type":"boolean"},
"BorrowConfiguration":{
  "type":"structure",
  "required":[
    "AllowEarlyCheckIn",
    "MaxTimeToLiveInMinutes"
  ],
  "members":{
    "AllowEarlyCheckIn":{"shape":"BoxBoolean"},
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
   }
},
"BoxBoolean":{"type":"boolean"},
"BoxInteger":{"type":"integer"},
"BoxLong":{"type":"long"},
"CheckInLicenseRequest":{
  "type":"structure",
  "required":["LicenseConsumptionToken"],
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Beneficiary":{"shape":"String"}
  }
},
"CheckInLicenseResponse":{
  "type":"structure",
  "members":{
  }
},
"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
    "NodeId":{"shape":"String"},
    "CheckoutMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
```

```
  }
 },

"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "NodeId":{"shape":"String"},
    "SignedToken":{"shape":"SignedToken"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "CheckoutMetadata":{"shape":"MetadataList"}
  }
 },
 "CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
   }
 },
 "CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
 },
```

```
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
   "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
```

```
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
   ],
   "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
   }
  },
  "CreateGrantResponse":{
   "type":"structure",
   "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
   }
  },
  "CreateGrantVersionRequest":{
   "type":"structure",
   "required":[
    "ClientToken",
    "GrantArn"
   ],
   "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"},
    "Status":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "SourceVersion":{"shape":"String"},
    "Options":{"shape":"Options"}
   }
  },
  "CreateGrantVersionResponse":{
   "type":"structure",
   "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
   }
  },
  "CreateLicenseConfigurationRequest":{
```

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   "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "LicenseRules":{"shape":"StringList"},
    "Tags":{"shape":"TagList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ProductInformationList":{"shape":"ProductInformationList"}
  }
},
"CreateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"CreateLicenseConversionTaskForResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{
    "ResourceArn":{"shape":"Arn"},
     "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
},
"CreateLicenseConversionTaskForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
  }
},
"CreateLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":[
    "ReportGeneratorName",
    "Type",
    "ReportContext",
```

```
    "ReportFrequency",
    "ClientToken"
   ],
   "members":{
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"},
    "Tags":{"shape":"TagList"}
   }
  },
  "CreateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
   "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
   }
  },
  "CreateLicenseRequest":{
   "type":"structure",
   "required":[
    "LicenseName",
    "ProductName",
    "ProductSKU",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "Beneficiary",
    "ConsumptionConfiguration",
    "ClientToken"
   ],
   "members":{
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "Entitlements":{"shape":"EntitlementList"},
    "Beneficiary":{"shape":"String"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}

}
  },
```

```
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
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    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "Status":{"shape":"LicenseStatus"},
     "ClientToken":{"shape":"ClientToken"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{
  "type":"structure",
  "required":[
```

```
    "LicenseArn",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
 },
 "CreateTokenResponse":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
 },
 "DateTime":{"type":"timestamp"},
 "DatetimeRange":{

"type":"structure",
  "required":["Begin"],
  "members":{
    "Begin":{"shape":"ISO8601DateTime"},
    "End":{"shape":"ISO8601DateTime"}
  }
 },
 "DeleteGrantRequest":{
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"}
  }
 },
 "DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
```

```
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
   "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "SourceVersion":{"shape":"String"}
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{"shape":"LicenseDeletionStatus"},
    "DeletionDate":{"shape":"ISO8601DateTime"}
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{"shape":"String"}
```

```
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{

  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
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    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",

   "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"EntitlementUnit":{
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
```

```
      "Kilobytes",
      "Megabytes",
      "Gigabytes",
      "Terabytes",

    "Bits",
      "Kilobits",
      "Megabits",
      "Gigabits",
      "Terabits",
      "Percent",
      "Bytes/Second",
      "Kilobytes/Second",
      "Megabytes/Second",
      "Gigabytes/Second",
      "Terabytes/Second",
      "Bits/Second",
      "Kilobits/Second",
      "Megabits/Second",
      "Gigabits/Second",
      "Terabits/Second",
      "Count/Second"
    ]
  },
  "EntitlementUsage":{
    "type":"structure",
    "required":[
      "Name",
      "ConsumedValue",
      "Unit"
    ],
    "members":{
      "Name":{"shape":"String"},
      "ConsumedValue":{"shape":"String"},
      "MaxCount":{"shape":"String"},
      "Unit":{"shape":"EntitlementDataUnit"}
    }
  },
  "EntitlementUsageList":{
    "type":"list",
    "member":{"shape":"EntitlementUsage"}
  },
  "ExtendLicenseConsumptionRequest":{
    "type":"structure",
    "required":["LicenseConsumptionToken"],
    "members":{
      "LicenseConsumptionToken":{"shape":"String"},
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    "DryRun":{"shape":"Boolean"}
  }
},
"ExtendLicenseConsumptionResponse":{
  "type":"structure",
  "members":{
    "LicenseConsumptionToken":{"shape":"String"},
    "Expiration":{"shape":"ISO8601DateTime"}
  }
},
"FailedDependencyException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"},
    "ErrorCode":{"shape":"String"}
  },
  "exception":true
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{"shape":"FilterName"},
    "Values":{"shape":"FilterValues"}
  }
},
"FilterLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
 },
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
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```
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"GetLicenseConfigurationResponse":{
   "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
```

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    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "Tags":{"shape":"TagList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
   }
  },
  "GetLicenseConversionTaskRequest":{
    "type":"structure",
   "required":["LicenseConversionTaskId"],
   "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
   }
  },
  "GetLicenseConversionTaskResponse":{
   "type":"structure",
   "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "StatusMessage":{"shape":"String"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
   }
  },
  "GetLicenseManagerReportGeneratorRequest":{
   "type":"structure",
   "required":["LicenseManagerReportGeneratorArn"],
   "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
    }
  },
  "GetLicenseManagerReportGeneratorResponse":{
   "type":"structure",
   "members":{
    "ReportGenerator":{"shape":"ReportGenerator"}
   }
  },
  "GetLicenseRequest":{
   "type":"structure",
   "required":["LicenseArn"],
   "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
   }
```

```
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
     "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
},
"Grant":{
  "type":"structure",
  "required":[
    "GrantArn",
    "GrantName",
    "ParentArn",
    "LicenseArn",
    "GranteePrincipalArn",
    "HomeRegion",
    "GrantStatus",
    "Version",
    "GrantedOperations"
  ],
```

```
  "members":{
    "GrantArn":{"shape":"Arn"},
    "GrantName":{"shape":"String"},
    "ParentArn":{"shape":"Arn"},
    "LicenseArn":{"shape":"Arn"},
    "GranteePrincipalArn":{"shape":"Arn"},
    "HomeRegion":{"shape":"String"},
    "GrantStatus":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "Version":{"shape":"String"},
    "GrantedOperations":{"shape":"AllowedOperationList"},
     "Options":{"shape":"Options"}
  }
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
```

```
  "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"},
    "ReceivedMetadata":{"shape":"ReceivedMetadata"}
   }
  },
  "GrantedLicenseList":{
   "type":"list",
   "member":{"shape":"GrantedLicense"}
  },
  "ISO8601DateTime":{
   "type":"string",
   "max":50,
   "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-
9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[ 0-3]|[0-1][0-9]):[0-5][0-9])+$"
  },
  "Integer":{"type":"integer"},
  "InvalidParameterValueException":{
   "type":"structure",
   "members":{
    "Message":{"shape":"Message"}
   },
   "exception":true,
   "synthetic":true
  },
  "InvalidResourceStateException":{
   "type":"structure",
   "members":{
    "Message":{"shape":"Message"}
   },
   "exception":true
  },
  "InventoryFilter":{
   "type":"structure",
   "required":[
    "Name",
    "Condition"
   ],
   "members":{
    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
   }
  },
  "InventoryFilterCondition":{
   "type":"string",
   "enum":[
    "EQUALS",
```

```
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
   ]
  },
  "InventoryFilterList":{
   "type":"list",
   "member":{"shape":"InventoryFilter"}
  },
  "Issuer":{
   "type":"structure",
   "required":["Name"],
   "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"}
   }
  },
  "IssuerDetails":{
   "type":"structure",
   "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
   }
  },
  "License":{
   "type":"structure",
   "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},

  "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
   }
  },
  "LicenseConfiguration":{
   "type":"structure",
   "members":{
```

```
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
     "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
 },
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},
"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
```

```
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
     "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
```

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  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
   "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
 "LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
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"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
  }
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
   "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
```

```
  }
},
"ListDistributedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
   "members":{
    "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConversionTasksRequest":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
  }
```

```
},
"ListLicenseConversionTasksResponse":{
  "type":"structure",
  "members":{
    "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
     "NextToken":{"shape":"String"}
  }
},
"ListLicenseManagerReportGeneratorsRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseManagerReportGeneratorsResponse":{
  "type":"structure",
  "members":{
    "ReportGenerators":{"shape":"ReportGeneratorList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}

}
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
```

```
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"LicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsForOrganizationRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
     "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedGrantsForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
```

```
  }
},
"ListReceivedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesForOrganizationRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
   }
},
"ListReceivedLicensesForOrganizationResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListReceivedLicensesRequest":{
  "type":"structure",
  "members":{
    "LicenseArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListReceivedLicensesResponse":{
  "type":"structure",
  "members":{
    "Licenses":{"shape":"GrantedLicenseList"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
```

```
"ListResourceInventoryResponse":{
  "type":"structure",
  "members":{
    "ResourceInventoryList":{"shape":"ResourceInventoryList"},
     "NextToken":{"shape":"String"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"}
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "Tags":{"shape":"TagList"}
  }
},
"ListTokensRequest":{
  "type":"structure",
  "members":{
    "TokenIds":{"shape":"StringList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
"ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
     "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
```

```
  "members":{
    "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
    "NextToken":{"shape":"String"}
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
   "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"Options":{
```

```
  "type":"structure",
  "members":{
    "ActivationOverrideBehavior":{"shape":"ActivationOverrideBehavior"}
  }
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{"shape":"Boolean"}
  }
},
"PrincipalArnList":{
  "type":"list",
  "member":{"shape":"Arn"},
  "max":1,
  "min":1
},
"ProductInformation":{
  "type":"structure",
  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members":{
    "ResourceType":{"shape":"String"},
     "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{"shape":"String"},
    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
```

```
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
   },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",
  "members":{
    "Location":{"shape":"Location"},
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
```

```
    "GrantArn":{"shape":"Arn"}
   }
  },
  "RejectGrantResponse":{
   "type":"structure",
   "members":{
     "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
   }
  },
  "RenewType":{
   "type":"string",
   "enum":[
    "None",
    "Weekly",
    "Monthly"
   ]
  },
  "ReportContext":{
   "type":"structure",
   "required":["licenseConfigurationArns"],
   "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
   }
  },
  "ReportFrequency":{
   "type":"structure",
   "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
   }
  },
  "ReportFrequencyType":{
   "type":"string",
   "enum":[
    "DAY",
    "WEEK",
    "MONTH"
   ]
  },
  "ReportGenerator":{
   "type":"structure",
   "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
```

```
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
```

```
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{"shape":"String"},
    "keyPrefix":{"shape":"String"}

}
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
```

```
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",
  "member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{
   "type":"structure",
  "members":{
  }
},
"TokenData":{
  "type":"structure",
  "members":{
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{
```

```
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
   ],
  "members":{
    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
```

```
  }
},
"UpdateLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{
   "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
   }
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
```

```
    "members":{
      "S3BucketArn":{"shape":"String"},
      "SnsTopicArn":{"shape":"String"},
      "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
      "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
    }
  },
  "UpdateServiceSettingsResponse":{
    "type":"structure",
    "members":{
    }
  },
  "UsageOperation":{
    "type":"string",
    "max":50
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  }
 }
}
{
 "version": "2.0",
 "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
 "operations": {
  "AcceptGrant": "<p>Accepts the specified grant.</p>",
  "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
  "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
  "CheckoutLicense": "<p>Checks out the specified license.</p> <note> <p>If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary.</p> </note>",
  "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
  "CreateGrantVersion": "<p>Creates a new version of the specified grant. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License Manager User Guide</i>.</p>",
  "CreateLicense": "<p>Creates a license.</p>",
  "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>",
```

"CreateLicenseConversionTaskForResource":
" Creates a new license conversion task. ",
"CreateLicenseManagerReportGenerator": " Creates a report generator. ",
"CreateLicenseVersion": " Creates a new version of the specified license. ",
"CreateToken": " Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. ",
"DeleteGrant": " Deletes the specified grant. ",
"DeleteLicense": " Deletes the specified license. ",
"DeleteLicenseConfiguration": " Deletes the specified license configuration. You cannot delete a license configuration that is in use. ",
"DeleteLicenseManagerReportGenerator": " Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. ",
"DeleteToken": " Deletes the specified token. Must be called in the license home Region. ",
"ExtendLicenseConsumption": " Extends the expiration date for license consumption. ",
"GetAccessToken": " Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. ",
"GetGrant": " Gets detailed information about the specified grant. ",
"GetLicense": " Gets detailed information about the specified license. ",
"GetLicenseConfiguration": " Gets detailed information about the specified license configuration. ",
"GetLicenseConversionTask": " Gets information about the specified license type conversion task. ",
"GetLicenseManagerReportGenerator": " Gets information about the specified report generator. ",
"GetLicenseUsage": " Gets detailed information about the usage of the specified license. ",
"GetServiceSettings":
" Gets the License Manager settings for the current Region. ",
"ListAssociationsForLicenseConfiguration": " Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). ",
"ListDistributedGrants": " Lists the grants distributed for the specified license. ",
"ListFailuresForLicenseConfigurationOperations": " Lists the license configuration operations that failed. ",
"ListLicenseConfigurations": " Lists the license configurations for your account. ",
"ListLicenseConversionTasks": " Lists the license type conversion tasks for your account. ",
"ListLicenseManagerReportGenerators": " Lists the report generators for your account. ",
"ListLicenseSpecificationsForResource": " Describes the license configurations for the specified resource. ",
"ListLicenseVersions": " Lists all versions of the specified license. ",
"ListLicenses": " Lists the licenses for your account. ",
"ListReceivedGrants": " Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. ",
"ListReceivedGrantsForOrganization": " Lists the grants received for all accounts in the organization. ",
"ListReceivedLicenses": " Lists received licenses. ",
"ListReceivedLicensesForOrganization": " Lists the licenses received for all accounts in the organization. ",
"ListResourceInventory": " Lists resources managed using Systems Manager inventory. ",
"ListTagsForResource": " Lists the tags for the specified license configuration. ",

```
  "ListTokens": "<p>Lists your tokens.</p>",
  "ListUsageForLicenseConfiguration":
 "<p>Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.</p>",
  "RejectGrant": "<p>Rejects the specified grant.</p>",
  "TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",
  "UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",
  "UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",
  "UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",
  "UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the
 license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>",
  "UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"
 },
 "shapes": {
  "AcceptGrantRequest": {
   "base": null,
   "refs": {
   }
  },
  "AcceptGrantResponse": {
   "base": null,
   "refs": {
   }
  },
  "AccessDeniedException": {
   "base": "<p>Access to resource denied.</p>",
   "refs": {
   }
  },
  "ActivationOverrideBehavior": {
   "base": null,
   "refs": {
    "Options$ActivationOverrideBehavior": "<p>An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation must specify the value of <code>ACTIVE</code>
 for the <code>Status</code> parameter.</p> <ul> <li> <p>As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.</p> </li> <li> <p>As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.</p> </li> <li> <p>As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.</p> </li> </ul> <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> <p>Use this value to activate a grant without replacing any member accounts active grants for the same product.</p> </dd>
<dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> <p>Use this value to activate a grant and disable
```

other active grants in any member accounts for the same product. This action will also replace their previously activated grants with this activated grant.
</dd> </dl>"
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": " Allowed operations for the grant. ",
      "CreateGrantVersionRequest$AllowedOperations": " Allowed operations for the grant. ",
      "Grant$GrantedOperations": " Granted operations. ",
      "ReceivedMetadata$AllowedOperations": " Allowed operations. "
    }
  },
  "Arn": {
    "base": null,
    "refs": {
      "AcceptGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "AcceptGrantResponse$GrantArn": " Grant ARN. ",
      "ArnList$member": null,
      "CheckoutBorrowLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. ",
      "CheckoutBorrowLicenseResponse$LicenseArn":
" Amazon Resource Name (ARN) of the license. ",
      "CreateGrantRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateGrantResponse$GrantArn": " Grant ARN. ",
      "CreateGrantVersionRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "CreateGrantVersionResponse$GrantArn": " Grant ARN. ",
      "CreateLicenseConversionTaskForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the resource you are converting the license type for. ",
      "CreateLicenseResponse$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "CreateLicenseVersionResponse$LicenseArn": " License ARN. ",
      "CreateTokenRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. ",
      "DeleteGrantRequest$GrantArn":
" Amazon Resource Name (ARN) of the grant. ",
      "DeleteGrantResponse$GrantArn": " Grant ARN. ",
      "DeleteLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "GetGrantRequest$GrantArn": " Amazon Resource Name (ARN) of the grant. ",
      "GetLicenseRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
      "GetLicenseUsageRequest$LicenseArn": " Amazon Resource Name (ARN) of the license. ",

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      "Grant$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
      "Grant$ParentArn": "<p>Parent ARN.</p>",
      "Grant$LicenseArn": "<p>License ARN.</p>",
      "Grant$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",
      "GrantedLicense$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "License$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
      "ListLicenseVersionsRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of
 the license.</p>",
      "ListReceivedGrantsForOrganizationRequest$LicenseArn": "<p>The Amazon Resource Name (ARN) of the
received license.</p>",
      "PrincipalArnList$member": null,
      "RejectGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
      "RejectGrantResponse$GrantArn": "<p>Grant ARN.</p>"
    }
  },
  "ArnList": {
    "base": null,
    "refs": {
      "CreateTokenRequest$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. License Manager does not check whether the roles are in use.</p>",
      "ListDistributedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
      "ListLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
      "ListReceivedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
      "ListReceivedLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

    "ReportContext$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration
that this generator reports on.</p>",
      "TokenData$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
    }
  },
  "AuthorizationException": {
    "base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the
IAM policy associated with this account.</p>",
    "refs": {
    }
  },
  "AutomatedDiscoveryInformation": {
    "base": "<p>Describes automated discovery.</p>",
    "refs": {
      "GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery
information.</p>",
      "LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
    }
  },
  "Boolean": {
    "base": null,
    "refs": {
      "ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the
```

action,
without actually making the request. Provides an error response if you do not have the required permissions. ",
"OrganizationConfiguration$EnableIntegration": " Enables Organizations integration. "
}
},
"BorrowConfiguration": {
"base": " Details about a borrow configuration. ",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": " Details about a borrow configuration. "
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn": " Indicates whether early check-ins are allowed. ",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": " Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. ",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"Entitlement$Overage": " Indicates
whether overages are allowed. ",
"Entitlement$AllowCheckIn": " Indicates whether check-ins are allowed. ",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": " Sets the number of available licenses as a hard limit. ",
"GetLicenseConfigurationResponse$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"GetServiceSettingsResponse$EnableCrossAccountsDiscovery": " Indicates whether cross-account discovery is enabled. ",
"LicenseConfiguration$LicenseCountHardLimit": " Number of available licenses as a hard limit. ",
"LicenseConfiguration$DisassociateWhenNotFound": " When true, disassociates a resource when software is uninstalled. ",
"UpdateLicenseConfigurationRequest$LicenseCountHardLimit": " New hard limit of the number of available licenses. ",
"UpdateLicenseConfigurationRequest$DisassociateWhenNotFound": " When true, disassociates
a resource when software is uninstalled. ",
"UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": " Activates cross-account discovery. "
}
},
"BoxInteger": {
"base": null,
"refs": {
"BorrowConfiguration$MaxTimeToLiveInMinutes": " Maximum time for the borrow configuration, in minutes. ",
"ListAssociationsForLicenseConfigurationRequest$MaxResults": " Maximum number of results to return in a single call. ",
"ListFailuresForLicenseConfigurationOperationsRequest$MaxResults": " Maximum number of results to return in a single call. ",

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      "ListLicenseConfigurationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseConversionTasksRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

    "ListResourceInventoryRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListUsageForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ProvisionalConfiguration$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration, in minutes.</p>"
     }
   },
   "BoxLong": {
    "base": null,
    "refs": {
      "ConsumedLicenseSummary$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
      "CreateLicenseConfigurationRequest$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
      "GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
      "GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
      "LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
      "LicenseConfiguration$ConsumedLicenses":
  "<p>Number of licenses consumed. </p>",
      "LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
      "ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
      "UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license configuration.</p>"
     }
   },
   "CheckInLicenseRequest": {
    "base": null,
    "refs": {
     }
   },
   "CheckInLicenseResponse": {
    "base": null,
    "refs": {
     }
   },
   "CheckoutBorrowLicenseRequest": {
    "base": null,
    "refs": {
     }
   },
   "CheckoutBorrowLicenseResponse": {
    "base": null,
```

```
    "refs": {
    }
  },
  "CheckoutLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CheckoutType": {
    "base": null,
    "refs": {
      "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
      "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
    }
  },
  "ClientRequestToken": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>"
    }
  },
  "ClientToken": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive
 identifier that you provide to ensure the idempotency of the request.</p>",
      "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the request.</p>",
      "CreateTokenRequest$ClientToken": "<p>Idempotency token, valid for 10 minutes.</p>"
    }
  },
  "ConflictException": {
```

```
    "base": "<p>There was a conflict processing the request. Try your request again.</p>",
    "refs": {
    }
  },
  "ConsumedLicenseSummary": {
    "base": "<p>Details about license consumption.</p>",
    "refs": {
      "ConsumedLicenseSummaryList$member": null
    }
  },
  "ConsumedLicenseSummaryList": {
     "base": null,
    "refs": {
      "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses consumed by resources.</p>",
      "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various resources.</p>"
    }
  },
  "ConsumptionConfiguration": {
    "base": "<p>Details about a consumption configuration.</p>",
    "refs": {
      "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>",
      "CreateLicenseVersionRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>",
      "GrantedLicense$ConsumptionConfiguration":
 "<p>Configuration for consumption of the license.</p>",
      "License$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"
    }
  },
  "CreateGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateGrantVersionRequest": {
    "base": null,
    "refs": {
    }
  },
```

```
"CreateGrantVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {

 }
},
"CreateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseVersionRequest": {
  "base": null,
```

```
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was started .</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license type conversion.</p>",
      "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was completed.</p>",
      "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated with the resource.</p>",
      "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially associated with the resource.</p>",
      "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
      "LicenseConversionTask$LicenseConversionTime": "<p>The time the usage operation value of the resource was changed.</p>",
      "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
      "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
    }
  },
  "DatetimeRange": {
    "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
    "refs": {
      "CreateLicenseRequest$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>",
      "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>",
      "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-UTC format.</p>",
```

```
    "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  }
},
"DeleteGrantRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteGrantResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseManagerReportGeneratorResponse": {
  "base": null,
   "refs": {
  }
},
"DeleteLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenRequest": {
  "base": null,
  "refs": {
  }
},
```

```
  "DeleteTokenResponse": {
    "base": null,
    "refs": {
    }
  },
  "DigitalSignatureMethod": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518 Digital Signature with RSASSA-PSS</a>.</p>"
    }
  },
  "Entitlement": {
    "base": "<p>Describes a resource entitled for use with a license.</p>",
    "refs": {
      "EntitlementList$member": null
    }
  },
  "EntitlementData": {
    "base": "<p>Data associated with an entitlement resource.</p>",

    "refs": {
      "EntitlementDataList$member": null
    }
  },
  "EntitlementDataList": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not supported.</p>",
      "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
      "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
    }
  },
  "EntitlementDataUnit": {
    "base": null,
    "refs": {
      "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
      "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
    }
  },
  "EntitlementList": {
    "base": null,
    "refs": {
      "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
      "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
```

```
      "GrantedLicense$Entitlements":
"<p>License entitlements.</p>",
      "License$Entitlements": "<p>License entitlements.</p>"
    }
  },
  "EntitlementNotAllowedException": {
    "base": "<p>The entitlement is not allowed.</p>",
    "refs": {
    }
  },
  "EntitlementUnit": {
    "base": null,
    "refs": {
      "Entitlement$Unit": "<p>Entitlement unit.</p>"
    }
  },
  "EntitlementUsage": {
    "base": "<p>Usage associated with an entitlement resource.</p>",
    "refs": {
      "EntitlementUsageList$member": null
    }
  },
  "EntitlementUsageList": {
    "base": null,
    "refs": {
      "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
    }
  },
  "ExtendLicenseConsumptionRequest": {
    "base": null,
    "refs": {
    }
  },
  "ExtendLicenseConsumptionResponse": {
    "base": null,
    "refs": {
    }
  },
  "FailedDependencyException": {
    "base": "<p>A dependency required to run the API is missing.</p>",
     "refs": {
    }
  },
  "Filter": {
    "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation.
Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
    "refs": {
      "FilterList$member": null,
```

```
    "Filters$member": null
   }
  },
  "FilterLimitExceededException": {
   "base": "<p>The request uses too many filters or too many filter values.</p>",
   "refs": {
   }
  },
  "FilterList": {
   "base": null,
   "refs": {
    "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p>
</li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li>
<li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
    "ListLicenseManagerReportGeneratorsRequest$Filters":
 "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p>
<code>LicenseConfigurationArn</code> </p> </li> </ul>",
    "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul>
<li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p>
<code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>",
    "ListReceivedGrantsForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ParentArn</code> </p> </li> <li> <p> <code>GranteePrincipalArn</code>
</p> </li> </ul>",
    "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p>
<ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> <li>
<p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code>
 </p> </li> <li> <p> <code>GranterAccountId</code> </p> </li> </ul>",
    "ListReceivedLicensesForOrganizationRequest$Filters": "<p>Filters to scope the results. The following filters
are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p>
</li> </ul>",
    "ListReceivedLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are
supported:</p> <ul> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Status</code> </p> </li>
<li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>IssuerName</code> </p> </li> <li> <p>
<code>Beneficiary</code> </p> </li> </ul>",
    "ListTokensRequest$Filters": "<p>Filters to scope the results. The following filter is supported:</p> <ul> <li>
<p> <code>LicenseArns</code> </p> </li> </ul>"
   }
  },
  "FilterName": {
   "base": null,
   "refs": {
    "Filter$Name": "<p>Name of the filter. Filter names are case-sensitive.</p>"
   }
  },
  "FilterValue": {
   "base": null,
   "refs": {
```

```
    "FilterValues$member": null
   }
  },
  "FilterValues": {
   "base": null,
   "refs": {
    "Filter$Values": "<p>The value of the filter, which is case-sensitive. You can only specify one value for the filter.</p>"
   }
  },
  "Filters": {
   "base": null,
   "refs": {
    "ListLicenseConfigurationsRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p>
 </li> <li> <p> <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>",
    "ListLicenseConversionTasksRequest$Filters": "<p> Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. </p>",
    "ListUsageForLicenseConfigurationRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>resourceArn</code> - The ARN of the license configuration resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>). Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>resourceAccount</code>
 - The ID of the account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> </ul>"
   }
  },
  "GetAccessTokenRequest": {
   "base": null,
   "refs": {
   }
  },
  "GetAccessTokenResponse": {
   "base": null,
   "refs": {
   }
  },
  "GetGrantRequest": {
   "base": null,
   "refs": {
```

```
    }
  },
  "GetGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseConversionTaskResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorResponse": {
    "base":
null,
    "refs": {
    }
  },
  "GetLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
```

```
  "GetLicenseUsageRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseUsageResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "GetServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "Grant": {
    "base": "<p>Describes a grant.</p>",
    "refs": {
      "GetGrantResponse$Grant": "<p>Grant details.</p>",
      "GrantList$member": null
    }
  },
  "GrantList": {
    "base": null,
    "refs": {
      "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
      "ListReceivedGrantsForOrganizationResponse$Grants": "<p>Lists the grants the organization has
received.</p>",
      "ListReceivedGrantsResponse$Grants":
 "<p>Received grant details.</p>"
    }
  },
  "GrantStatus": {
    "base": null,
    "refs": {
      "AcceptGrantResponse$Status": "<p>Grant status.</p>",
      "CreateGrantResponse$Status": "<p>Grant status.</p>",
      "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
      "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
      "DeleteGrantResponse$Status": "<p>Grant status.</p>",
      "Grant$GrantStatus": "<p>Grant status.</p>",
      "RejectGrantResponse$Status": "<p>Grant status.</p>"
    }
```

```
  },
  "GrantedLicense": {
    "base": "<p>Describes a license that is granted to a grantee.</p>",
    "refs": {
      "GrantedLicenseList$member": null
    }
  },
  "GrantedLicenseList": {
    "base": null,
    "refs": {
      "ListReceivedLicensesForOrganizationResponse$Licenses": "<p>Lists the licenses the organization has
received.</p>",
      "ListReceivedLicensesResponse$Licenses": "<p>Received license
 details.</p>"
    }
  },
  "ISO8601DateTime": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is
issued.</p>",
      "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout
expires.</p>",
      "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
      "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
      "DatetimeRange$Begin": "<p>Start of the time range.</p>",
      "DatetimeRange$End": "<p>End of the time range.</p>",
      "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
      "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption
expires.</p>",
      "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
      "License$CreateTime": "<p>License
 creation time.</p>",
      "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
    }
  },
  "Integer": {
    "base": null,
    "refs": {
      "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>",
      "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The
only supported value is <code>1</code>.</p>"
    }
  },
  "InvalidParameterValueException": {
    "base": "<p>One or more parameter values are not valid.</p>",
    "refs": {
```

```
    }
  },
  "InvalidResourceStateException": {
    "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example, you cannot allocate a license to an instance in the process of shutting down.</p>",
    "refs": {
    }
  },
  "InventoryFilter": {
    "base": "<p>An inventory filter.</p>",
    "refs": {

    "InventoryFilterList$member": null
    }
  },
  "InventoryFilterCondition": {
    "base": null,
    "refs": {
      "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
    }
  },
  "InventoryFilterList": {
    "base": null,
    "refs": {
      "ListResourceInventoryRequest$Filters": "<p>Filters to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code>
 | <code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>tag:&amp;lt;key&amp;gt;</code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account).</p> </li> </ul>"
    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
      "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
      "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
    }
  },
  "IssuerDetails": {
```

```
    "base": "<p>Details associated with the issuer of a license.</p>",
    "refs": {
      "GrantedLicense$Issuer": "<p>Granted
 license issuer.</p>",
      "License$Issuer": "<p>License issuer.</p>"
    }
  },
  "License": {
    "base": "<p>Software license that is managed in License Manager.</p>",
    "refs": {
      "GetLicenseResponse$License": "<p>License details.</p>",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and
enforced by License Manager. Components include specifications for the license type (licensing by instance, socket,
CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity
(how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": "<p>Describes an association with a license configuration.</p>",
     "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Information
about the associations for the license configuration.</p>"
    }
  },
  "LicenseConfigurationStatus": {
    "base": null,
    "refs": {
      "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license
configuration.</p>"
    }
  },
  "LicenseConfigurationUsage": {
    "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationUsageList$member": null
    }
```

```
  },
  "LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
      "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the
license configurations.</p>"
    }

  },
  "LicenseConfigurations": {
    "base": null,
    "refs": {
      "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license
configurations.</p>"
    }
  },
  "LicenseConversionContext": {
    "base": "<p>Information about a license type conversion task.</p>",
    "refs": {
      "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies
the license type you are converting from. For the structure of the source license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
      "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that
identifies the license type you are converting to. For the structure of the destination license, see <a
href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-
cli\">Convert
 a license type using the CLI </a> in the <i>License Manager User Guide</i>.</p>",
      "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type
converted from.</p>",
      "GetLicenseConversionTaskResponse$DestinationLicenseContext": "<p>Information about the license type
converted to.</p>",
      "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
converted from.</p>",
      "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion
task converted to.</p>"
    }
  },
  "LicenseConversionTask": {
    "base": "<p>Information about a license type conversion task.</p>",
    "refs": {
      "LicenseConversionTasks$member": null
    }
  },
  "LicenseConversionTaskId": {
    "base": null,
    "refs": {
      "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId":
```

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 "<p>The ID of the created license type conversion task.</p>",
      "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to retrieve information on.</p>",
      "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion task.</p>",
      "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
    }
  },
  "LicenseConversionTaskStatus": {
    "base": null,
    "refs": {
      "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",
      "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
    }
  },
  "LicenseConversionTasks": {
    "base": null,
    "refs": {
      "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license configuration tasks for your account.</p>"
    }
  },
  "LicenseCountingType":
 {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license inventory.</p>",
      "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are counted.</p>",
      "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>"
    }
  },
  "LicenseDeletionStatus": {
    "base": null,
    "refs": {
      "DeleteLicenseResponse$Status": "<p>License status.</p>"
    }
  },
  "LicenseList": {
    "base": null,
    "refs": {
      "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
      "ListLicensesResponse$Licenses": "<p>License details.</p>"
    }
  },
  "LicenseOperationFailure": {
    "base": "<p>Describes the failure of a license operation.</p>",
```

```
    "refs": {
      "LicenseOperationFailureList$member": null
    }
  },
  "LicenseOperationFailureList": {
    "base":
 null,
    "refs": {
      "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
    }
  },
  "LicenseSpecification": {
    "base": "<p>Details for associating a license configuration with a resource.</p>",
    "refs": {
      "LicenseSpecifications$member": null
    }
  },
  "LicenseSpecifications": {
    "base": null,
    "refs": {
      "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
      "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
    }
  },
  "LicenseStatus": {
    "base": null,
    "refs": {
      "CreateLicenseResponse$Status": "<p>License status.</p>",
      "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
      "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
      "GrantedLicense$Status": "<p>Granted license status.</p>",
      "License$Status": "<p>License status.</p>"
    }
  },
  "LicenseUsage": {
    "base": "<p>Describes the entitlement usage associated with a license.</p>",
    "refs": {
      "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
    }
  },
  "LicenseUsageException": {
    "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
    "refs": {
```

```
    }
  },
  "ListAssociationsForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListAssociationsForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListDistributedGrantsResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListFailuresForLicenseConfigurationOperationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConfigurationsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseConversionTasksRequest": {
    "base": null,
    "refs": {
    }
  },
```

```
  "ListLicenseConversionTasksResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseManagerReportGeneratorsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseManagerReportGeneratorsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseSpecificationsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseSpecificationsForResourceResponse":
{
    "base": null,
    "refs": {
    }
  },
  "ListLicenseVersionsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicenseVersionsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListLicensesRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListLicensesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsForOrganizationRequest": {
    "base": null,
```

```
    "refs": {
    }
  },
  "ListReceivedGrantsForOrganizationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedGrantsResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesForOrganizationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesForOrganizationResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesRequest":
{
    "base": null,
    "refs": {
    }
  },
  "ListReceivedLicensesResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListResourceInventoryResponse": {
    "base": null,
    "refs": {
    }
```

```
  },
  "ListTagsForResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTagsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListTokensResponse": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationRequest": {
    "base": null,
    "refs": {
    }
  },
  "ListUsageForLicenseConfigurationResponse": {
    "base": null,
    "refs": {
    }
  },
  "Location": {
    "base": null,
    "refs": {
      "RedirectException$Location": null
    }
  },
  "Long":
 {
    "base": null,
    "refs": {
      "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
    }
  },
  "ManagedResourceSummary": {
    "base": "<p>Summary information about a managed resource.</p>",
    "refs": {
      "ManagedResourceSummaryList$member": null
```

```
    }
  },
  "ManagedResourceSummaryList": {
    "base": null,
    "refs": {
      "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed resources.</p>",
      "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
    }
  },
  "MaxSize100": {
    "base": null,
    "refs": {
      "ListDistributedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListLicenseVersionsRequest$MaxResults": "<p>Maximum
 number of results to return in a single call.</p>",
      "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedGrantsForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedLicensesForOrganizationRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
      "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
    }
  },
  "MaxSize3StringList": {
    "base": null,
    "refs": {
      "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token.</p>",

     "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the JWT token.</p>",
      "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
    }
  },
  "Message": {
    "base": null,
    "refs": {
      "AccessDeniedException$Message": null,
      "AuthorizationException$Message": null,
      "ConflictException$Message": null,
      "EntitlementNotAllowedException$Message": null,
      "FailedDependencyException$Message": null,
      "FilterLimitExceededException$Message": null,
```

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      "InvalidParameterValueException$Message": null,
      "InvalidResourceStateException$Message": null,
      "LicenseUsageException$Message": null,
      "NoEntitlementsAllowedException$Message": null,
      "RateLimitExceededException$Message": null,
      "RedirectException$Message": null,
      "ResourceLimitExceededException$Message": null,
      "ResourceNotFoundException$Message": null,
      "ServerInternalException$Message":
 null,
      "UnsupportedDigitalSignatureMethodException$Message": null,
      "ValidationException$Message": null
    }
  },
  "Metadata": {
    "base": "<p>Describes key/value pairs.</p>",
    "refs": {
      "MetadataList$member": null
    }
  },
  "MetadataList": {
    "base": null,
    "refs": {
      "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
      "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
      "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
      "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
      "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
      "License$LicenseMetadata": "<p>License metadata.</p>",
      "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
    }
  },
  "NoEntitlementsAllowedException": {

    "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
    "refs": {
    }
  },
  "Options": {
    "base": "<p>The options you can specify when you create a new version of a grant, such as activation override
behavior. For more information, see <a href=\"https://docs.aws.amazon.com/license-
manager/latest/userguide/granted-licenses.html\">Granted licenses in License Manager</a> in the <i>License
Manager User Guide</i>.</p>",
    "refs": {
      "CreateGrantVersionRequest$Options": "<p>The options specified for the grant.</p>",
      "Grant$Options": "<p>The options specified for the grant.</p>"
    }
  },
```

```
  "OrganizationConfiguration": {
    "base": "<p>Configuration information for Organizations.</p>",
    "refs": {
      "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>",
      "UpdateServiceSettingsRequest$OrganizationConfiguration": "<p>Enables integration with Organizations for cross-account discovery.</p>"
    }
  },
  "PrincipalArnList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$Principals": "<p>The grant principals. You can specify one of the following as an Amazon Resource Name (ARN):</p> <ul> <li> <p>An Amazon Web Services account, which includes only the account specified.</p> </li> </ul> <ul> <li> <p>An organizational unit (OU), which includes all accounts in the OU.</p> </li> </ul> <ul> <li> <p>An organization, which will include all accounts across your organization.</p> </li> </ul>"
    }
  },
  "ProductInformation": {
    "base": "<p>Describes product information for a license configuration.</p>",
    "refs": {
      "ProductInformationList$member": null
    }
  },
  "ProductInformationFilter": {
    "base": "<p>Describes product information filters.</p>",
    "refs": {
      "ProductInformationFilterList$member": null
    }
  },
  "ProductInformationFilterList": {
    "base": null,
    "refs": {
      "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. </p> <p>The following filters and are supported when the resource type is <code>SSM_MANAGED</code>:</p> <ul> <li> <p> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application Version</code> - The version of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Tag:key</code> - The key of a tag
```

attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
    }
  },
  "ProductInformationList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$ProductInformationList":
" Product information. ",
      "GetLicenseConfigurationResponse$ProductInformationList": " Product information. ",
      "LicenseConfiguration$ProductInformationList": " Product information. ",
      "UpdateLicenseConfigurationRequest$ProductInformationList": " New product information. "
    }
  },
  "ProvisionalConfiguration": {
    "base": " Details about a provisional configuration. ",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": " Details about a provisional configuration. "
    }
  },
  "RateLimitExceededException": {
    "base": " Too many requests have been submitted. Try again after a brief wait. ",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": " Metadata associated with received licenses and grants. ",
    "refs": {
      "GrantedLicense$ReceivedMetadata": " Granted license received metadata. "
    }
  },
  "ReceivedStatus": {
    "base": null,
    "refs": {
      "ReceivedMetadata$ReceivedStatus": " Received status. "

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    }
  },
  "RedirectException": {
    "base": "<p>This is not the correct Region for the resource. Try again.</p>",
    "refs": {
    }
  },
  "RejectGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "RejectGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "RenewType": {
    "base": null,
    "refs": {
      "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
    }
  },
  "ReportContext": {
    "base": "<p>Details of the license configuration that this generator reports on.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license configuration the report generator tracks.</p>",
      "ReportGenerator$ReportContext": "<p>License configuration type for this generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportContext": "<p>The report context.</p>"
    }
  },
  "ReportFrequency": {
    "base": "<p>Details about how frequently reports are generated.</p>",
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated. Reports can be generated daily, monthly, or weekly.</p>",
      "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are generated.</p>"
    }
  },
  "ReportFrequencyType": {
    "base": null,
    "refs": {
      "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or monthly.</p>"
```

```
    }
  },
  "ReportGenerator": {
    "base": "<p>Describe the details of a report generator.</p>",
    "refs": {
      "GetLicenseManagerReportGeneratorResponse$ReportGenerator":
 "<p>A report generator that creates periodic reports about your license configurations.</p>",
      "ReportGeneratorList$member": null
    }
  },
  "ReportGeneratorList": {
    "base": null,
    "refs": {
      "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
    }
  },
  "ReportGeneratorName": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
    }
  },
  "ReportType": {
    "base": null,
    "refs": {
      "ReportTypeList$member": null
    }
  },
  "ReportTypeList": {
    "base": null,
    "refs": {
      "CreateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following report
types an
 be generated:</p> <ul> <li> <p>License configuration report - Reports the number and details of consumed
licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and resource
consumption for a license configuration.</p> </li> </ul>",
      "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
      "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
    }
  },
  "ResourceInventory": {
```

```
    "base": "<p>Details about a resource.</p>",
    "refs": {
      "ResourceInventoryList$member": null
    }
  },
  "ResourceInventoryList": {
    "base": null,
    "refs": {
      "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
    }
  },
  "ResourceLimitExceededException": {
    "base": "<p>Your resource limits have been exceeded.</p>",
    "refs": {
    }
  },
  "ResourceNotFoundException": {
    "base": "<p>The resource cannot be found.</p>",
    "refs": {
    }
  },
  "ResourceType": {
    "base": null,
    "refs": {
      "ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",
      "LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
      "LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
      "LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
      "ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
      "ResourceInventory$ResourceType": "<p>Type of resource.</p>"
    }
  },
  "S3Location": {
    "base":
 "<p>Details of the S3 bucket that report generator reports are published to.</p>",
    "refs": {
      "ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
    }
  },
  "ServerInternalException": {
    "base": "<p>The server experienced an internal error. Try again.</p>",
    "refs": {
    }
  },
  "SignedToken": {
    "base": null,
    "refs": {
```

```
    "CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
    "CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
   }
  },
  "StatusReasonMessage": {
   "base": null,
   "refs": {
    "CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
    "DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
    "Grant$StatusReason": "<p>Grant status reason.</p>",
    "ReceivedMetadata$ReceivedStatusReason": "<p>Received status reason.</p>"
   }
  },

 "String": {
   "base": null,
   "refs": {
    "AcceptGrantResponse$Version": "<p>Grant version.</p>",
    "CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",
    "CheckoutLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
    "CheckoutLicenseRequest$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
    "CheckoutLicenseResponse$NodeId": "<p>Node ID.</p>",
    "CheckoutLicenseResponse$LicenseArn":
"<p>Amazon Resource Name (ARN) of the checkout license.</p>",
    "CreateGrantRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantRequest$HomeRegion": "<p>Home Region of the grant.</p>",
    "CreateGrantResponse$Version": "<p>Grant version.</p>",
    "CreateGrantVersionRequest$GrantName": "<p>Grant name.</p>",
    "CreateGrantVersionRequest$SourceVersion": "<p>Current version of the grant.</p>",
    "CreateGrantVersionResponse$Version": "<p>New version of the grant.</p>",
    "CreateLicenseConfigurationRequest$Name": "<p>Name of the license configuration.</p>",
    "CreateLicenseConfigurationRequest$Description": "<p>Description of the license configuration.</p>",
    "CreateLicenseConfigurationResponse$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
    "CreateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
    "CreateLicenseManagerReportGeneratorResponse$LicenseManagerReportGeneratorArn":
"<p>The Amazon Resource Name (ARN) of the new report generator.</p>",
    "CreateLicenseRequest$LicenseName": "<p>License name.</p>",
    "CreateLicenseRequest$ProductName": "<p>Product name.</p>",
    "CreateLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
    "CreateLicenseRequest$HomeRegion": "<p>Home Region for the license.</p>",
```

"CreateLicenseRequest$Beneficiary": " License beneficiary. ",
"CreateLicenseResponse$Version": " License version. ",
"CreateLicenseVersionRequest$LicenseName": " License name. ",
"CreateLicenseVersionRequest$ProductName": " Product name. ",
"CreateLicenseVersionRequest$HomeRegion": " Home Region of the license. ",
"CreateLicenseVersionRequest$SourceVersion": " Current version of the license. ",
"CreateLicenseVersionResponse$Version": " New version of the license. ",
"CreateTokenResponse$TokenId":
" Token ID. ",
"DeleteGrantRequest$Version": " Current version of the grant. ",
"DeleteGrantResponse$Version": " Grant version. ",
"DeleteLicenseConfigurationRequest$LicenseConfigurationArn": " ID of the license configuration. ",
"DeleteLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator to be deleted. ",
"DeleteLicenseRequest$SourceVersion": " Current version of the license. ",
"DeleteTokenRequest$TokenId": " Token ID. ",
"Entitlement$Name": " Entitlement name. ",
"Entitlement$Value": " Entitlement resource. Use only if the unit is None. ",
"EntitlementData$Name": " Entitlement data name. ",
"EntitlementData$Value": " Entitlement data value. ",
"EntitlementUsage$Name": " Entitlement usage name. ",
"EntitlementUsage$ConsumedValue":
" Resource usage consumed. ",
"EntitlementUsage$MaxCount": " Maximum entitlement usage count. ",
"ExtendLicenseConsumptionRequest$LicenseConsumptionToken": " License consumption token. ",
"ExtendLicenseConsumptionResponse$LicenseConsumptionToken": " License consumption token. ",
"FailedDependencyException$ErrorCode": null,
"GetGrantRequest$Version": " Grant version. ",
"GetLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationId": " Unique ID for the license configuration. ",
"GetLicenseConfigurationResponse$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"GetLicenseConfigurationResponse$Name": " Name of the license configuration. ",
"GetLicenseConfigurationResponse$Description": " Description of the license
configuration. ",
"GetLicenseConfigurationResponse$Status": " License configuration status. ",
"GetLicenseConfigurationResponse$OwnerAccountId": " Account ID of the owner of the license configuration. ",
"GetLicenseConversionTaskResponse$ResourceArn": " Amazon Resource Names (ARN) of the resources the license conversion task is associated with. ",
"GetLicenseConversionTaskResponse$StatusMessage": " The status message for the conversion task. ",
"GetLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"GetLicenseRequest$Version": " License version. ",
"GetServiceSettingsResponse$S3BucketArn": " Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on. ",

"GetServiceSettingsResponse$SnsTopicArn": " SNS topic configured to receive notifications from License Manager. ",
"GetServiceSettingsResponse$LicenseManagerResourceShareArn": " Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share. ",
"Grant$GrantName": " Grant name. ",
"Grant$HomeRegion": " Home Region of the grant. ",
"Grant$Version": " Grant version. ",
"GrantedLicense$LicenseName": " License name. ",
"GrantedLicense$ProductName": " Product name. ",
"GrantedLicense$ProductSKU": " Product SKU. ",
"GrantedLicense$HomeRegion": " Home Region of the granted license. ",
"GrantedLicense$Beneficiary": " Granted license beneficiary. ",
"GrantedLicense$Version": " Version of the granted license. ",
"InventoryFilter$Name": " Name of the filter. ",
"InventoryFilter$Value": " Value of the filter. ",
"Issuer$Name": " Issuer name. ",
"Issuer$SignKey":
" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$Name": " Issuer name. ",
"IssuerDetails$SignKey": " Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. ",
"IssuerDetails$KeyFingerprint": " Issuer key fingerprint. ",
"License$LicenseName": " License name. ",
"License$ProductName": " Product name. ",
"License$ProductSKU": " Product SKU. ",
"License$HomeRegion": " Home Region of the license. ",
"License$Beneficiary": " License beneficiary. ",
"License$Version": " License version. ",
"LicenseConfiguration$LicenseConfigurationId": " Unique ID of the license configuration. ",
"LicenseConfiguration$LicenseConfigurationArn":
" Amazon Resource Name (ARN) of the license configuration. ",
"LicenseConfiguration$Name": " Name of the license configuration. ",
"LicenseConfiguration$Description": " Description of the license configuration. ",
"LicenseConfiguration$Status": " Status of the license configuration. ",
"LicenseConfiguration$OwnerAccountId": " Account ID of the license configuration's owner. ",
"LicenseConfigurationAssociation$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationAssociation$ResourceOwnerId": " ID of the Amazon Web Services account that owns the resource consuming licenses. ",
"LicenseConfigurationAssociation$AmiAssociationScope": " Scope of AMI associations. The possible value is <code>cross-account</code>. ",
"LicenseConfigurationUsage$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"LicenseConfigurationUsage$ResourceStatus":
" Status of the resource. ",
"LicenseConfigurationUsage$ResourceOwnerId": " ID of the account that owns the resource. ",
"LicenseConversionTask$ResourceArn": " The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. ",

```
"LicenseConversionTask$StatusMessage": "<p>The status message for the conversion task.</p>",
"LicenseOperationFailure$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",
"LicenseOperationFailure$ErrorMessage": "<p>Error message.</p>",
"LicenseOperationFailure$OperationName": "<p>Name of the operation.</p>",
"LicenseOperationFailure$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",
"LicenseOperationFailure$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",
"LicenseSpecification$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
"LicenseSpecification$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",
"ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",
"ListAssociationsForLicenseConfigurationRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListAssociationsForLicenseConfigurationResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListDistributedGrantsRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListDistributedGrantsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListFailuresForLicenseConfigurationOperationsRequest$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",
"ListFailuresForLicenseConfigurationOperationsRequest$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseConfigurationsRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseConfigurationsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseConversionTasksRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseConversionTasksResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseManagerReportGeneratorsRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseManagerReportGeneratorsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",
"ListLicenseSpecificationsForResourceRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseSpecificationsForResourceResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseVersionsRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicenseVersionsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListLicensesRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListLicensesResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedGrantsForOrganizationRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedGrantsForOrganizationResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedGrantsRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedGrantsResponse$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedLicensesForOrganizationRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedLicensesForOrganizationResponse$NextToken":
"<p>Token for the next set of results.</p>",
"ListReceivedLicensesRequest$NextToken": "<p>Token for the next set of results.</p>",
"ListReceivedLicensesResponse$NextToken": "<p>Token for the next set of results.</p>",
```

"ListResourceInventoryRequest$NextToken": " Token for the next set of results. ",
"ListResourceInventoryResponse$NextToken": " Token for the next set of results. ",
"ListTagsForResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListTokensRequest$NextToken": " Token for the next set of results. ",
"ListTokensResponse$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn": " Amazon Resource Name (ARN) of the license configuration. ",
"ListUsageForLicenseConfigurationRequest$NextToken": " Token for the next set of results. ",
"ListUsageForLicenseConfigurationResponse$NextToken": " Token for the next set of results. ",
"MaxSize3StringList$member": null,
"Metadata$Name": " The key name. ",
"Metadata$Value": " The value. ",
"ProductInformation$ResourceType": " Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. ",
"ProductInformationFilter$ProductInformationFilterName": " Filter name. ",
"ProductInformationFilter$ProductInformationFilterComparator": " Logical operator. ",
"RejectGrantResponse$Version": " Grant version. ",
"ReportGenerator$ReportGeneratorName": " Name of the report generator. ",
"ReportGenerator$LicenseManagerReportGeneratorArn": " Amazon Resource Name (ARN) of the report generator. ",
"ReportGenerator$LastRunStatus": " Status of the last report generation attempt. ",
"ReportGenerator$LastRunFailureReason": " Failure message for the last report generation attempt. ",
"ReportGenerator$LastReportGenerationTime": " Time the last report was generated at. ",
"ReportGenerator$ReportCreatorAccount": " The Amazon Web Services account ID used to create the report generator. ",
"ReportGenerator$Description": " Description of the report generator. ",
"ReportGenerator$CreateTime": " Time the report was created. ",
"ResourceInventory$ResourceId": " ID of the resource. ",
"ResourceInventory$ResourceArn": " Amazon Resource Name (ARN) of the resource. ",
"ResourceInventory$Platform": " Platform of the resource. ",
"ResourceInventory$PlatformVersion": " Platform version of the resource in the inventory. ",
"ResourceInventory$ResourceOwningAccountId": " ID of the account that owns the resource. ",
"S3Location$bucket": " Name of the S3 bucket reports are published to. ",
"S3Location$keyPrefix": " Prefix of the S3 bucket reports are published to. ",
"StringList$member": null,
"Tag$Key": " Tag key. ",
"Tag$Value": " Tag value. ",
"TagKeyList$member": null,
"TagResourceRequest$ResourceArn": " Amazon Resource Name (ARN) of the license configuration. ",
"TokenData$TokenId": " Token ID. ",
"TokenData$TokenType": " Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. ",
"TokenData$LicenseArn": " Amazon Resource Name (ARN) of the license. ",
"TokenData$Status": " Token status. The possible values are <code>AVAILABLE</code> and <code>DELETED</code>. ",

```
    "UntagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
    "UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",
    "UpdateLicenseConfigurationRequest$Name": "<p>New name of the license configuration.</p>",
    "UpdateLicenseConfigurationRequest$Description": "<p>New description of the license configuration.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to update.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$Description": "<p>Description of the report generator.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the Amazon Web Services resource.</p>",
    "UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored.</p>",
    "UpdateServiceSettingsRequest$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts.</p>"
   }
  },
  "StringList": {
   "base": null,
   "refs": {
    "CreateLicenseConfigurationRequest$LicenseRules": "<p>License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li> <p> <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code> </p> </li> <li> <p> <code>Instances</code> dimension: <code>allowedTenancy</code> | <code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> | <code>minimumSockets</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> <li> <p> <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code> </p> </li> <li> <p> <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code> </p> </li> </ul> <p>The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>.</p>",
    "GetLicenseConfigurationResponse$LicenseRules": "<p>License rules.</p>",
    "LicenseConfiguration$LicenseRules": "<p>License rules.</p>",
    "ListLicenseConfigurationsRequest$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the license configurations.</p>",
    "ListTokensRequest$TokenIds": "<p>Token IDs.</p>",
    "ProductInformationFilter$ProductInformationFilterValue": "<p>Filter value.</p>",
    "UpdateLicenseConfigurationRequest$LicenseRules": "<p>New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost.</p>"
   }
  },
  "Tag": {
   "base": "<p>Details about a tag
```

```
for a license configuration.</p>",
    "refs": {
      "TagList$member": null
    }
  },
  "TagKeyList": {
    "base": null,
    "refs": {
      "UntagResourceRequest$TagKeys": "<p>Keys identifying the tags to remove.</p>"
    }
  },
  "TagList": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$Tags": "<p>Tags to add to the license configuration.</p>",
      "CreateLicenseManagerReportGeneratorRequest$Tags": "<p>Tags to add to the report generator.</p>",
      "GetLicenseConfigurationResponse$Tags": "<p>Tags for the license configuration.</p>",
      "ListTagsForResourceResponse$Tags": "<p>Information about the tags.</p>",
      "ReportGenerator$Tags": "<p>Tags associated with the report generator.</p>",
      "TagResourceRequest$Tags": "<p>One or more tags.</p>"
    }
  },
  "TagResourceRequest": {
    "base": null,
    "refs": {
    }
  },
  "TagResourceResponse": {
    "base": null,
    "refs": {

    }
  },
  "TokenData": {
    "base": "<p>Describes a token.</p>",
    "refs": {
      "TokenList$member": null
    }
  },
  "TokenList": {
    "base": null,
    "refs": {
      "ListTokensResponse$Tokens": "<p>Received token details.</p>"
    }
  },
  "TokenString": {
    "base": null,
    "refs": {
```

```
    "CreateTokenResponse$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
   }
  },
  "TokenType": {
   "base": null,
   "refs": {
    "CreateTokenResponse$TokenType": "<p>Token type.</p>"
   }
  },
  "UnsupportedDigitalSignatureMethodException": {
   "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
   "refs": {
   }
  },
  "UntagResourceRequest": {
   "base": null,
   "refs": {
   }
  },
  "UntagResourceResponse":
 {
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseConfigurationRequest": {
   "base": null,
   "refs": {
   }
  },
  "UpdateLicenseConfigurationResponse": {
   "base": null,
   "refs": {
   }
  },
  "UpdateLicenseManagerReportGeneratorRequest": {
   "base": null,
   "refs": {
   }
  },
  "UpdateLicenseManagerReportGeneratorResponse": {
   "base": null,
   "refs": {
   }
  },
  "UpdateLicenseSpecificationsForResourceRequest": {
```

```
    "base": null,
    "refs": {
    }
  },
  "UpdateLicenseSpecificationsForResourceResponse": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsRequest": {
    "base": null,
    "refs": {
    }
  },
  "UpdateServiceSettingsResponse": {
    "base": null,
    "refs": {
    }
  },
  "UsageOperation": {
    "base": null,
    "refs": {
      "LicenseConversionContext$UsageOperation": "<p>The Usage operation value
 that corresponds to the license type you are converting your resource from. For more information about which
platforms correspond to which usage operation values see <a
href=\"https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/billing-info-fields.html#billing-info\">Sample
data: usage operation by platform </a> </p>"
    }
  },
  "ValidationException": {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
    }
  }
 }
}
{
  "testCases": [
    {
      "documentation": "For region af-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.af-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
```

```
        "Region": "af-south-1"
      }
    },
    {
      "documentation": "For region ap-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-east-1"
      }
    },
    {
      "documentation": "For region ap-northeast-1 with FIPS disabled and DualStack disabled",

"expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-1"
      }
    },
    {
      "documentation": "For region ap-northeast-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-northeast-2"
      }
    },
    {
      "documentation": "For region ap-northeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-northeast-3.amazonaws.com"
```

```
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-northeast-3"
        }
    },
    {
        "documentation": "For region ap-south-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-south-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-south-1"
        }
    },
    {
        "documentation": "For region ap-southeast-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-1.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack":
false,
            "Region": "ap-southeast-1"
        }
    },
    {
        "documentation": "For region ap-southeast-2 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager.ap-southeast-2.amazonaws.com"
            }
        },
        "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Region": "ap-southeast-2"
        }
    },
```

```
    {
      "documentation": "For region ap-southeast-3 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ap-southeast-3.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ap-southeast-3"
      }
    },
    {
      "documentation":
"For region ca-central-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.ca-central-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "ca-central-1"
      }
    },
    {
      "documentation": "For region eu-central-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-central-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-central-1"
      }
    },
    {
      "documentation": "For region eu-north-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint":
{
          "url": "https://license-manager.eu-north-1.amazonaws.com"
        }
      },
```

```
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-north-1"
      }
    },
    {
      "documentation": "For region eu-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-south-1"
      }
    },
    {
      "documentation": "For region eu-west-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-1.amazonaws.com"
        }
      },
      "params":
{
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-1"
      }
    },
    {
      "documentation": "For region eu-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-2"
      }
    },
    {
      "documentation": "For region eu-west-3 with FIPS disabled and DualStack disabled",
```

```
      "expect": {
        "endpoint": {
          "url": "https://license-manager.eu-west-3.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "eu-west-3"
      }

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    {
      "documentation": "For region me-south-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.me-south-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "me-south-1"
      }
    },
    {
      "documentation": "For region sa-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.sa-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "sa-east-1"
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {

      "endpoint": {
          "url": "https://license-manager.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
```

```
      "UseDualStack": false,
      "Region": "us-east-1"
    }
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    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-2.amazonaws.com"
      }
    },

   "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "us-east-2"
    }
  },
  {
    "documentation": "For region us-east-2 with FIPS enabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-fips.us-east-2.amazonaws.com"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": false,
      "Region": "us-east-2"
    }
  },
  {
    "documentation": "For region us-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
```

```
            "url": "https://license-manager.us-west-1.amazonaws.com"
          }
        },
        "params": {
          "UseFIPS": false,
          "UseDualStack": false,
          "Region": "us-west-1"

      }
    },
    {
      "documentation": "For region us-west-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.us-west-1.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-west-1"
      }
    },
    {
      "documentation": "For region us-west-2 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.us-west-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "us-west-2"
      }
    },
    {
      "documentation": "For region us-west-2 with FIPS enabled and DualStack disabled",
      "expect":
  {
        "endpoint": {
          "url": "https://license-manager-fips.us-west-2.amazonaws.com"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "us-west-2"
```

```
    }
  },
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    "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
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        "url": "https://license-manager-fips.us-east-1.api.aws"
      }
    },
    "params": {
      "UseFIPS": true,
      "UseDualStack": true,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.us-east-1.api.aws"
      }
    },

   "params": {
      "UseFIPS": false,
      "UseDualStack": true,
      "Region": "us-east-1"
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Region": "cn-north-1"
    }
  },
  {
    "documentation": "For region cn-northwest-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager.cn-northwest-1.amazonaws.com.cn"
      }
```

```
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": false,
        "Region": "cn-northwest-1"
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": true,
        "Region": "cn-north-1"
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-fips.cn-north-1.amazonaws.com.cn"
        }
      },
      "params": {
        "UseFIPS": true,
        "UseDualStack": false,
        "Region": "cn-north-1"
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
        }
      },
      "params": {
        "UseFIPS": false,
        "UseDualStack": true,
        "Region": "cn-north-1"
      }
    },
    {
```

```
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
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      }
    },
    "params": {
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      "UseDualStack": false,
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    }
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    "params": {
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        "UseFIPS": true,
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    },
    "params": {
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      "UseDualStack": false,
      "Region": "us-isob-east-1"
    }
  },
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      "UseDualStack": true,
      "Region": "us-isob-east-1"
    }
  },
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    },
    "params": {
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      "UseDualStack": false,
      "Region": "us-east-1",
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    }
  },
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       }
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         "UseDualStack": true,
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         "Endpoint": "https://example.com"
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       "expect": {
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      "type": "String"
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      "default": false,
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      "type": "Boolean"
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    "UseFIPS": {
      "builtIn": "AWS::UseFIPS",
      "required": true,
      "default": false,
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      "type": "Boolean"
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      "type": "String"
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            {
              "ref": "Endpoint"
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          ]
        }
      ],
      "rules": [
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          "conditions": [
            {
              "fn": "booleanEquals",
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                "argv": [
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                    "ref": "UseFIPS"
                  },
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                ]
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```

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                    "argv": [
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```

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                                "supportsFIPS"
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```

```
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                            }
                          ]
                        }
                      ],
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                          "conditions": [],
                          "rules": [

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```

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    "type": "error"
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 "pagination": {
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   "output_token": "NextToken",
   "limit_key": "MaxResults",
   "result_key": "Instances"
  },
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   "output_token": "NextToken",
   "limit_key": "MaxResults",
   "result_key": "Subscriptions"
```

```
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    "output_token": "NextToken",
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  }
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 "examples": {
 }
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  "ListInstances": {
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    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceSummaries"
  },
  "ListProductSubscriptions": {
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    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "ProductUserSummaries"
  },
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    "output_token": "NextToken",
    "limit_key": "MaxResults",
    "result_key": "InstanceUserSummaries"
  }
 }
}
```

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{
 "version":"2.0",
 "metadata":{
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  "endpointPrefix":"license-manager-user-subscriptions",
  "jsonVersion":"1.1",
  "protocol":"rest-json",
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  "serviceId":"License Manager User Subscriptions",
  "signatureVersion":"v4",
  "signingName":"license-manager-user-subscriptions",
  "uid":"license-manager-user-subscriptions-2018-05-10"
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    "responseCode":200
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  "http":{
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    {"shape":"AccessDeniedException"}
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    "responseCode":200
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 "output":{"shape":"StartProductSubscriptionResponse"},
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  {"shape":"ValidationException"},
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  {"shape":"InternalServerException"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"AccessDeniedException"}
 ]
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  "requestUri":"/user/StopProductSubscription",
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  {"shape":"AccessDeniedException"}
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  "responseCode":200
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    "exception":true
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      "InstanceId",
      "Username"
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    "members":{
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      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "Username":{"shape":"String"}
    }
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  "required":[
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    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
 },
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"DisassociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"DisassociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
```

```
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{"shape":"String"},
    "Operation":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"FilterList":{
  "type":"list",
   "member":{"shape":"Filter"}
},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
  },
  "union":true
},
"IdentityProviderSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Settings",
    "Status"
  ],
  "members":{
    "FailureMessage":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"},
    "Status":{"shape":"String"}
  }
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
```

```
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
     "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{"shape":"String"},
    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerException":{
  "type":"structure",
  "members":{

 "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
```

```
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesResponse":{
  "type":"structure",
  "members":{
    "InstanceSummaries":{"shape":"InstanceSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListProductSubscriptionsRequest":{
  "type":"structure",
   "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Product":{"shape":"String"}
  }
},
"ListProductSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
  }
},
"ListUserAssociationsRequest":{
  "type":"structure",
```

```
    "required":[
      "IdentityProvider",
      "InstanceId"
    ],
    "members":{
      "Filters":{"shape":"FilterList"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "InstanceId":{"shape":"String"},
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListUserAssociationsResponse":{
    "type":"structure",

"members":{
      "InstanceUserSummaries":{"shape":"InstanceUserSummaryList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ProductUserSummary":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product",
      "Status",
      "Username"
    ],
    "members":{
      "Domain":{"shape":"String"},
      "IdentityProvider":{"shape":"IdentityProvider"},
      "Product":{"shape":"String"},
      "Status":{"shape":"String"},
      "StatusMessage":{"shape":"String"},
      "SubscriptionEndDate":{"shape":"String"},
      "SubscriptionStartDate":{"shape":"String"},
      "Username":{"shape":"String"}
    }
  },
  "ProductUserSummaryList":{
    "type":"list",
    "member":{"shape":"ProductUserSummary"}
  },
  "RegisterIdentityProviderRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
```

```
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
     "Product":{"shape":"String"},
    "Settings":{"shape":"Settings"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "error":{
    "httpStatusCode":404,
    "senderFault":true
  },
  "exception":true
},
"SecurityGroup":{
  "type":"string",
  "max":200,
  "min":5,
  "pattern":"^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"Settings":{
  "type":"structure",
  "required":[
    "SecurityGroupId",
    "Subnets"
  ],
  "members":{
    "SecurityGroupId":{"shape":"SecurityGroup"},
     "Subnets":{"shape":"SettingsSubnetsList"}
  }
```

```
},
"SettingsSubnetsList":{
  "type":"list",
  "member":{"shape":"Subnet"},
  "min":1
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
     "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
```

```
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Subnet":{
  "type":"string",
  "pattern":"subnet-[a-z0-9]{8,17}"
},
"Subnets":{
  "type":"list",
  "member":{"shape":"Subnet"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UpdateIdentityProviderSettingsRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "UpdateSettings"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
     "Product":{"shape":"String"},
    "UpdateSettings":{"shape":"UpdateSettings"}
  }
},
"UpdateIdentityProviderSettingsResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"UpdateSettings":{
  "type":"structure",
  "required":[
    "AddSubnets",
    "RemoveSubnets"
  ],
  "members":{
    "AddSubnets":{"shape":"Subnets"},
```

```
      "RemoveSubnets":{"shape":"Subnets"},
      "SecurityGroupId":{"shape":"SecurityGroup"}
    }
  },
  "ValidationException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true
  }
 }
}
```


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```
{
"version":"2.0",
"metadata":{
  "apiVersion":"2018-05-10",
  "endpointPrefix":"license-manager-linux-subscriptions",
  "jsonVersion":"1.1",
  "protocol":"rest-json",
  "protocols":["rest-json"],
  "serviceFullName":"AWS License Manager Linux Subscriptions",
  "serviceId":"License Manager Linux Subscriptions",
  "signatureVersion":"v4",
  "signingName":"license-manager-linux-subscriptions",
  "uid":"license-manager-linux-subscriptions-2018-05-10",
  "auth":["aws.auth#sigv4"]
},
"operations":{
  "DeregisterSubscriptionProvider":{
```

```
  "name":"DeregisterSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/DeregisterSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"DeregisterSubscriptionProviderRequest"},
  "output":{"shape":"DeregisterSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
     {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetRegisteredSubscriptionProvider":{
  "name":"GetRegisteredSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetRegisteredSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
  "output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/GetServiceSettings",
    "responseCode":200
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
   "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
```

```
},
"ListLinuxSubscriptionInstances":{
  "name":"ListLinuxSubscriptionInstances",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptionInstances",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
  "output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListLinuxSubscriptions":{
  "name":"ListLinuxSubscriptions",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListLinuxSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListLinuxSubscriptionsRequest"},
   "output":{"shape":"ListLinuxSubscriptionsResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"ListRegisteredSubscriptionProviders":{
  "name":"ListRegisteredSubscriptionProviders",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/ListRegisteredSubscriptionProviders",
    "responseCode":200
  },
  "input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
  "output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
```

```
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"GET",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
   },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ]
},
"RegisterSubscriptionProvider":{
  "name":"RegisterSubscriptionProvider",
  "http":{
    "method":"POST",
    "requestUri":"/subscription/RegisterSubscriptionProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterSubscriptionProviderRequest"},
  "output":{"shape":"RegisterSubscriptionProviderResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ThrottlingException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"PUT",
    "requestUri":"/tags/{resourceArn}",
    "responseCode":200
  },

  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"ValidationException"}
  ],
  "idempotent":true
```

```
  },
  "UntagResource":{
    "name":"UntagResource",
    "http":{
      "method":"DELETE",
      "requestUri":"/tags/{resourceArn}",
      "responseCode":200
    },
    "input":{"shape":"UntagResourceRequest"},
    "output":{"shape":"UntagResourceResponse"},
    "errors":[
      {"shape":"InternalServerException"},
      {"shape":"ResourceNotFoundException"}
    ],
    "idempotent":true
  },
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/subscription/UpdateServiceSettings",
      "responseCode":200
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
     "errors":[
      {"shape":"InternalServerException"},
      {"shape":"ThrottlingException"},
      {"shape":"ValidationException"}
    ],
    "idempotent":true
  }
},
"shapes":{
  "Boolean":{
    "type":"boolean",
    "box":true
  },
  "BoxInteger":{
    "type":"integer",
    "box":true
  },
  "BoxLong":{
    "type":"long",
    "box":true
  },
  "DeregisterSubscriptionProviderRequest":{
    "type":"structure",
```

```
  "required":["SubscriptionProviderArn"],
  "members":{
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
  }
},
"DeregisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
  }
},
"Filter":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "Operator":{"shape":"Operator"},
    "Values":{"shape":"StringList"}
  }
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
 },
"GetRegisteredSubscriptionProviderRequest":{
  "type":"structure",
  "required":["SubscriptionProviderArn"],
  "members":{
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"}
  }
},
"GetRegisteredSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
```

```
    "HomeRegions":{"shape":"StringList"},
    "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
     "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
    "Status":{"shape":"Status"},
    "StatusMessage":{"shape":"StringMap"}
   }
  },
  "Instance":{
   "type":"structure",
   "members":{
    "AccountID":{"shape":"String"},
    "AmiId":{"shape":"String"},
    "DualSubscription":{"shape":"String"},
    "InstanceID":{"shape":"String"},
    "InstanceType":{"shape":"String"},
    "LastUpdatedTime":{"shape":"String"},
    "OsVersion":{"shape":"String"},
    "ProductCode":{"shape":"ProductCodeList"},
    "Region":{"shape":"String"},
    "RegisteredWithSubscriptionProvider":{"shape":"String"},
    "Status":{"shape":"String"},
    "SubscriptionName":{"shape":"String"},
    "SubscriptionProviderCreateTime":{"shape":"String"},
    "SubscriptionProviderUpdateTime":{"shape":"String"},
    "UsageOperation":{"shape":"String"}
   }
  },

  "InstanceList":{
    "type":"list",
    "member":{"shape":"Instance"}
  },
  "InternalServerException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "exception":true,
    "fault":true
  },
  "LinuxSubscriptionsDiscovery":{
    "type":"string",
    "enum":[
      "Enabled",
      "Disabled"
    ]
  },
  "LinuxSubscriptionsDiscoverySettings":{
```

```
  "type":"structure",
  "required":[
    "OrganizationIntegration",
    "SourceRegions"
  ],
  "members":{
    "OrganizationIntegration":{"shape":"OrganizationIntegration"},
    "SourceRegions":{"shape":"StringList"}
  }
},
"ListLinuxSubscriptionInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
   "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionInstancesResponse":{
  "type":"structure",
  "members":{
    "Instances":{"shape":"InstanceList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLinuxSubscriptionsRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"ListLinuxSubscriptionsRequestNextTokenString"}
  }
},
"ListLinuxSubscriptionsRequestNextTokenString":{
  "type":"string",
  "max":16384,
  "min":1
},
"ListLinuxSubscriptionsResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "Subscriptions":{"shape":"SubscriptionList"}
```

```
  }
},
"ListRegisteredSubscriptionProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger"},
     "NextToken":{"shape":"String"},
    "SubscriptionProviderSources":{"shape":"SubscriptionProviderSourceList"}
  }
},
"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
  "type":"integer",
  "box":true,
  "max":100,
  "min":1
},
"ListRegisteredSubscriptionProvidersResponse":{
  "type":"structure",
  "members":{
    "NextToken":{"shape":"String"},
    "RegisteredSubscriptionProviders":{"shape":"RegisteredSubscriptionProviderList"}
  }
},
"ListTagsForResourceRequest":{
  "type":"structure",
  "required":["resourceArn"],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    }
  }
},
"ListTagsForResourceResponse":{
  "type":"structure",
  "members":{
    "tags":{"shape":"Tags"}
  }
},
"Operator":{
  "type":"string",
   "enum":[
    "Equal",
    "NotEqual",
    "Contains"
  ],
  "max":20,
```

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  "min":1
},
"OrganizationIntegration":{
  "type":"string",
  "enum":[
    "Enabled",
    "Disabled"
  ]
},
"ProductCodeList":{
  "type":"list",
  "member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
  "type":"structure",
  "required":[
    "SecretArn",
    "SubscriptionProviderSource"
  ],
  "members":{
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "Tags":{"shape":"Tags"}
  }
},
"RegisterSubscriptionProviderResponse":{
  "type":"structure",
  "members":{
    "SubscriptionProviderArn":{"shape":"String"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"}
  }
},
"RegisteredSubscriptionProvider":{
   "type":"structure",
  "members":{
    "LastSuccessfulDataRetrievalTime":{"shape":"String"},
    "SecretArn":{"shape":"SecretArn"},
    "SubscriptionProviderArn":{"shape":"SubscriptionProviderArn"},
    "SubscriptionProviderSource":{"shape":"SubscriptionProviderSource"},
    "SubscriptionProviderStatus":{"shape":"SubscriptionProviderStatus"},
    "SubscriptionProviderStatusMessage":{"shape":"String"}
  }
},
"RegisteredSubscriptionProviderList":{
  "type":"list",
  "member":{"shape":"RegisteredSubscriptionProvider"}
},
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"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"SecretArn":{
  "type":"string",
  "pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},
"Status":{
  "type":"string",
  "enum":[
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"Completed",
    "Successful",
    "Failed"
  ]
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"StringListMemberString"},
  "max":100,
  "min":1
},
"StringListMemberString":{
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  "max":100,
  "min":1
},
"StringMap":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"}
},
"Subscription":{
  "type":"structure",
  "members":{
    "InstanceCount":{"shape":"BoxLong"},
    "Name":{"shape":"String"},
    "Type":{"shape":"String"}
  }
},
"SubscriptionList":{
  "type":"list",
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```
    "member":{"shape":"Subscription"}
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    "type":"string",
    "pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-
z0-9-\\.]{1,510}$"
   },
   "SubscriptionProviderSource":{
    "type":"string",
    "enum":["RedHat"]
   },
   "SubscriptionProviderSourceList":{
    "type":"list",
    "member":{"shape":"SubscriptionProviderSource"}
   },
   "SubscriptionProviderStatus":{
    "type":"string",
    "enum":[
     "ACTIVE",
     "INVALID",
     "PENDING"
    ]
   },
   "TagKeyList":{
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    "member":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
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    "type":"structure",
    "required":[
     "resourceArn",
     "tags"
    ],
    "members":{
     "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
     },
     "tags":{"shape":"Tags"}
    }
   },
   "TagResourceResponse":{
    "type":"structure",
    "members":{
```

```
  }
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"ThrottlingException":{
   "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "resourceArn",
    "tagKeys"
  ],
  "members":{
    "resourceArn":{
      "shape":"SubscriptionProviderArn",
      "location":"uri",
      "locationName":"resourceArn"
    },
    "tagKeys":{
      "shape":"TagKeyList",
      "location":"querystring",
      "locationName":"tagKeys"
    }
  }
},
"UntagResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "required":[
    "LinuxSubscriptionsDiscovery",
    "LinuxSubscriptionsDiscoverySettings"
  ],
  "members":{
```

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      "AllowUpdate":{"shape":"Boolean"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"}
     }
    },
    "UpdateServiceSettingsResponse":{
     "type":"structure",
     "members":{
      "HomeRegions":{"shape":"StringList"},
      "LinuxSubscriptionsDiscovery":{"shape":"LinuxSubscriptionsDiscovery"},
      "LinuxSubscriptionsDiscoverySettings":{"shape":"LinuxSubscriptionsDiscoverySettings"},
      "Status":{"shape":"Status"},
      "StatusMessage":{"shape":"StringMap"}
     }
    },
    "ValidationException":{
     "type":"structure",
     "members":{
      "message":{"shape":"String"}
     },
     "exception":true
    }
   }
  }
  {
   "pagination": {
   }
  }
  {
    "version": "1.0",
    "parameters": {
      "Region": {
        "builtIn": "AWS::Region",
        "required": false,
        "documentation": "The AWS region used to dispatch the request.",
        "type": "String"
      },
      "UseDualStack": {
        "builtIn": "AWS::UseDualStack",
        "required": true,
        "default": false,
        "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-
stack, dispatching the request MAY return an error.",
        "type": "Boolean"
      },
      "UseFIPS": {
        "builtIn": "AWS::UseFIPS",
        "required": true,
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```
        "default": false,
        "documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
        "type": "Boolean"
      },
      "Endpoint": {

    "builtIn": "SDK::Endpoint",
        "required": false,
        "documentation": "Override the endpoint used to send this request",
        "type": "String"
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    },
    "rules": [
      {
        "conditions": [
          {
            "fn": "isSet",
            "argv": [
              {
                "ref": "Endpoint"
              }
            ]
          }
        ],
        "type": "tree",
        "rules": [
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true
                ]
              }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
          },
          {
            "conditions": [],
            "type": "tree",
            "rules": [
              {
```

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                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseDualStack"
                      },
                      true
                    ]
                  }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [],

"endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },
                  "properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ]
          }
        ]
      },
      {
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        "type": "tree",
        "rules": [
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            "conditions": [
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                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
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                      "argv": [
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                          "ref": "Region"
                        }
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                      "assign": "PartitionResult"
                    }
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                "type": "tree",
                "rules": [
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                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseFIPS"
                            },

true
                          ]
                        },
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
                      ],
                      "type": "tree",
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                        {
                          "conditions": [
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"
```

```
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [

                    true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "type": "tree",
                "rules": [
                    {

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                        "type": "tree",
                        "rules": [
                            {
                                "conditions": [],
                                "endpoint": {
                                    "url": "https://license-manager-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ]

            }
                ]
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
```

```
both",
                "type": "error"
              }
            ]
          },
          {
            "conditions": [
              {
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseFIPS"
                  },
                  true

                ]
              }
            ],
            "type": "tree",
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"

  },
                            "supportsFIPS"
                          ]
                        }
                      ]
                    }
                  ],
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                  "rules": [
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                      "conditions": [],
                      "type": "tree",
                      "rules": [
                        {
                          "conditions": [],
                          "endpoint": {
```

```
                                        "url":
"https://license-manager-fips.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ]
                        }
                    ]
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"
                }
            ]

        },
                {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
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            ],
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            "rules": [
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                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv":
[
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsDualStack"
                                    ]
```

```
                                    }
                                ]
                            }
                        ],
                        "type": "tree",
                        "rules": [

            {
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                                "type": "tree",
                                "rules": [
                                    {
                                        "conditions": [],
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manager.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}
                                        },
                                        "type": "endpoint"
                                    }
                                ]

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                            ]
                        },
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                            "type": "error"
                        }
                    ]
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                                 "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ]
                }
```

```
                ]
              }
            ]
          },
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            "error": "Invalid Configuration: Missing Region",
            "type": "error"
          }
        ]
      }
    ]
}
{
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
```

```
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
    "expect": {
      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
       }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": true
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  },
  {
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
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      "endpoint": {
        "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
      }
    },
    "params": {
      "Region": "cn-north-1",
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
```

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    },
    "params": {
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      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
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      }
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  {
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    },
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    "expect": {
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    },
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      "UseFIPS": true,
      "UseDualStack": false
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```
    }
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      }
    },
    "params": {
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      "UseFIPS": false,
      "UseDualStack": true
    }
  },
  {
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    "expect": {
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      }
    },
    "params": {
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      "UseFIPS": false,
      "UseDualStack": false
    }
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  {
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    "expect": {
      "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
    },
    "params": {
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      "UseFIPS": true,
      "UseDualStack": true
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
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        "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
      }
    },
    "params": {
      "Region": "us-iso-east-1",
```

```
      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
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    },
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      "UseFIPS": false,
      "UseDualStack": true
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  },
  {
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    "expect": {
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       }
    },
    "params": {
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    }
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  {
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      "UseFIPS": true,
      "UseDualStack": true
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  {
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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      }
    },
    "params": {
      "Region": "us-isob-east-1",
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            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {

"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
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            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
        }
    },
    {
        "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
        "expect": {
            "endpoint": {
                "url": "https://example.com"
```

```
            }
          },
          "params": {
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
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          "expect":
{
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
          }
        },
        {
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          "expect": {
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
          },
          "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": true,
            "Endpoint": "https://example.com"
          }
        },
        {
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          "expect": {
            "error": "Invalid Configuration: Missing Region"
          }
        }
      ],
      "version": "1.0"
}
```


1.60 ca-certificates-bundle 20241121-r1

1.60.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.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
"
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
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="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$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"
```

1.61 alpine-baselayout-data 3.6.8-r1

1.61.1 Available under license :

```
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Francesco Colista <francesco.colista@gmail.com>
# Maintainer: Francesco Colista <francesco.colista@gmail.com>
pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/"
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/$_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}
```

```
build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test
}

package() {
 cd "$_builddir"
 make
 DESTDIR="$pkgdir" install || return 1
 find "$pkgdir" \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"
```

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95052.
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pkgname=py-flake8-copyright
_pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=0
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"

```
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/$_pkgname/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
 cd "$builddir"
 python3 setup.py build || return 1
}

package() {
 cd "$builddir"
 python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-
0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faff5d586c3b1be9570f4a977a7e
2417b586e543bfba12abce256b2023c8c4993eeb90
  flake8-copyright-0.2.0.tar.gz"
```

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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"

```
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"
source="http://ftp.gnome.org/pub/GNOME/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2
 "

_builddir="$srcdir"/libart_lgpl-$pkgver

prepare() {
 cd "$_builddir"
 update_config_sub || return 1
}
build() {
 cd "$_builddir"
 ./configure \
  --build=$CBUILD \
  --host=$CHOST \
  --prefix=/usr \
  || return 1
 make || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_pkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends="    "
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"
```

```
_builddir="$srcdir/$_pkgreal-$pkgver"

prepare() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor
}

build() {
 cd "$_builddir"
 export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
 make && make test || return 1
}

package() {
 cd "$_builddir"
 make DESTDIR="$pkgdir" install || return 1
 find "$pkgdir"
 \( -name perllocal.pod -o -name .packlist \) -delete
}

md5sums="3c6dd2fa953088aa87e263f40818d012  BSD-Resource-1.2909.tar.gz"
sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5fc79e851e2e855e06  BSD-Resource-
1.2909.tar.gz"
sha512sums="5f489eaac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd
85743363750157943c7f7700276cce2bd40a429fa430  BSD-Resource-1.2909.tar.gz"
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1.62 libcrypto3 3.3.2-r4

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Appendix: How to Apply These Terms to Your New Programs

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To do so,
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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision 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.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

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1.63 alpine-release 3.21.2-r0

1.63.1 Available under license :

```
# Contributor: Patrycja Rosa <alpine@ptrcnull.me>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.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
"
# Automatically generated by apkbuild-cpan, template 4
# Contributor: Valery Kartel <valery.kartel@gmail.com>
# Maintainer: Celeste <cielesti@protonmail.com>
maintainer="Celeste <cielesti@protonmail.com>"
pkgname=perl-bsd-resource
pkgver=1.2911
pkgrel=10
#_pkgreal is used by apkbuild-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
"
# 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
"
# Contributor: Dhruvin Gandhi <contact@dhru.vin>
# Maintainer: Patrycja Rosa <alpine@ptrcnull.me>
pkgname=py3-license-expression
_pkgname=license_expression
pkgver=30.4.0
pkgrel=0
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="
cc7cd6b5bd8ea4c99b66f074871ffd7cc78b3e8b1b0d3afd9b95efdb7147c8293db2fac977d684fc34d3d60bd79066a06
dc2bff0a38b130d9d83c63538502db1
  license_expression-30.4.0.tar.gz
"
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```

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```
# Contributor: Carlo Landmeter <clandmeter@alpinelinux.org>
# Maintainer: Kevin Daudt <kdaudt@alpinelinux.org>
pkgname=spdx-licenses
pkgver=3.24.0
pkgrel=0
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="
6eb81424e1b3173dbd8e17859b2e15dfe1c2af8f4da59b7dad0729c038a4cbdba95c34c2c546285fcdbbd41562e39575e
6a6ebb9463b70121e0a12b99d1307e7  license-list-data-3.24.0.tar.gz
"
```

mini_sendmail - accept email on behalf of real sendmail

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```
# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgname=libart-lgpl
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="$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$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"
```

1.64 grpc-go 1.70.0

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1.65 google-golang-org-grpc 1.70.0

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1.66 golang 1.23.6

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1.68 github.com/hashicorp/go-secure-stdlib/parseutil 0.1.9

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1.72 go-cleanhttp 0.5.2

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1.73 libcurl 8.12.0-r0

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1.74 x-time 0.10.0

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1.75 x-sys 0.30.0

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1.76 x-sync 0.11.0

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1.77 protobuf-go 1.36.5

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1.79 genproto-googleapis-rpc 0.0.0-20250204164813-702378808489

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1.80 x-time-rate 0.10.0

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1.81 google.golang.org/genproto/googleapis/rpc 0.0.0-20250204164813-702378808489

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