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1.3 animal-sniffer-annotation 1.0

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1.4 annotations 3.0.1

1.5 antisamy 1.5.3

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1.6 apache-el 8.0.33

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<meta name="msapplication-config" content="/favicons/browserconfig.xml">
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</head>

<body>

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<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>

</body>
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1.7 archaius-core 0.7.4

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.
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Donors

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<li>Joel Hockey <joel.hockey@064; qsipayments.com> - initial work on the openSSL PEM processing.</li>
<li>John Steenbruggen <JohnS@064; geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Thomas Houtekier <Thomas.Houtekier@tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.</li>
<li>Kazu Furuaya <kfuruaya@064; infoteria.co.jp> - fixing root certificate chaining bug in PKCS12 key store.</li>
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<li>John Steenbruggen <JohnS@064; geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Justin Chapweske <justin@064; chapweske.com> - ordering patch for Tiger message digest.</li>
<li>John Serock <jserock@064; hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
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<li>Tim Sakach <tsakach@064; certivo.net> - SMIME v2 compatibility patches.</li>
<li>Sebastian Clauszlig; <sc2@064; inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.</li>
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<li>Rick Zeldes <rick.zeldes@064; eds.com> - initial code for CMS/SMIME CompressedData.</li>
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<li>Chris Schultz <cschultz@604gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee <dmlee@604crossroads.com> - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees <rees@604ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
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<li>Remi Blancher <remi.blancher@604keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke <brianorourke@604gmail.com> - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier <andreas.schwier@604cardcontact.de> - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ED3 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>
<li>David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.</li>
<li>Kishimoto Kazuhiko <kazu-k@604hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan <lawrcntan@604gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente <superdupont@604gmail.com> - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olaf Keller, <olaf.keller.bc@604bluewin.ch> - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>Jörg Eichhorn <eichhorn@604ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream,
support for F2m compression.</li>
<li>Karsten Ohme <widerstand@online.de> - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509.Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings.
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
<li>Carlos Lozano Ruiz <carlos@06treadise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.</li>
<li>John Alfred Prufrock <j.a.prufrock@064gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen <sneusatz@064gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice <marzio.logiudice@064gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold <georg.lippold@064gmx.de> - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles <chris_viles@064yahoo.com> - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Lijun Liao <lijun.liao@064rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.</li>
<li>Maria Ivanova <maria.ivanova@064gmail.com> - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin Hauuml;berling <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder <mschilder@064google.com> - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vourch <xavier@064brittanysoftware.com> - general code clean ups.</li>
<li>Erik Tews <e_tews@064dc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon <reikomusha@064gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis <info@064frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim <joaquim@064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey <DStacey@064allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers <list@064mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies <juliusdavies@064gmail.com> - additional modes and algorithm support in PEMReader.</li>
<li>Matthias <g@064gentoo.de> - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&auml;thler <olga.caetherl@064hip-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo <germano.rizzo@064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-
256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; <numaa&#064hotmail.com> - patch for alternate data type recognition in CMSignedDataParser.</li>
<li>Janis Schuller <js&#064tzi.de> - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet <mike&#064samblanet.com> - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns <nstjohns&#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
<li>Ramon Keller <ramon.keller&#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson <mark&#064064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov <eugene_gff&#064ukr.net> - mask fix to single byte read in TlsInputSteam.</li>
<li>Julien Pasquier <julienpasquier&#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp <pknoppp&#064ntg.de> - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz <gwozdzja&#064644rp.pl> - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski <bmalkow&#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi <tal.yacobi&#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi <massimiliano.ziccardi&#064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko <andrey.a.pavlenko&#064gmail.com> - security manager patch for PKCS1Encoding property check.</li>
<li>Mike StJohns <nstjohns&#064comcast.net> - updates to KeyPurposeId.</li>
<li>J Ross Nicoll <jrnl&#064644jrm.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson <mavricknz&#064yahoo.com> - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini <gcontini&#0646444topop.com> - identified a bug in ASN.1 library with handling of unterminated NDFEs.</li>
<li>Roelof Naude <roelof.naude&#064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck <peck&#064644signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay <lemaymd&#064644lemaymd.com> - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre <ale&#064644freebsd.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicC</li>
<li>Jon Larra&lt;ntilde;aga <jlarra&#064644s21sec.com> fix to default partial packet generation in BCPGOutputSteam.</li>
<li>Bob Kerns <bob.kerns&#064positscience.com> fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer <stefan.meyer&#064ewe.de> backport for PKIXCertPathValidot and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore <Robert.J.Moore&#064allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai <rui&#064644po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic <emir.bucalovic&#064644mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79&#064gmail.com> initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle_pfitz&#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson <henrik.andersson&#064gmail.com> addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit&#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.

Harakiri <harakiri_23&#064yahoo.com> datahandler patch for attached parts in SMIME signatures.

Pedro Henriques <pmahenriques&#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimmeringer <job&#064kimmeringer.de> verbose mode for ASN1Dump, support for DEREternal.

Richard Farr <frarr.se&#064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione&#064604au.ibm.com> patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani&#064sogei.it> patch for recognising multiple counter signatures.

Robin Lundgren <r737lundgren&#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec <smormegil&#064604centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener_a&#064604mx.ch> fix to buffer reset in Asymmetric.BufferedBlockCipher.

Harendra Rawat <hsrawat&#064yahoo.com> fix for BERConstructedOctetString.

Rolf Lindemann <lindemann&#064604trustcenter.de> patch to PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alexart.home&#064gmail.com> name look up patch for GOST-2001 parameters.

Mike Lyons <mlyons&#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole <chris_h_cole&#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom&#064604attack.cz> added checking of Sender header to SignedMailValidator.

Michael <emfau&#064t-online.de> correction of field error in getResponse method in CertRepMessage.

Trevor Perrin <trevor&#064cryptography.com> addition of constant time equals to avoid possible timing attacks.

Markus Kilariings <markus&#064604primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <darionis&#064604yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith <msmith&#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex&#064604birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis <info&#064604frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan&#064604dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <boab.mcgoo&#064btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche&#064gmail.com> patch to add IV to ISO9797Alg3Mac.

Alf Malf <alfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa <alfonso massa@#64insiel.it> contributions to CMS time stamp classes.<p>
Giacoimo Boccardo <gboccardo@#64unimaticaspa.it> initial work on CMSTimeStampedDataParser.<p>
Arnis Tartu <arnis@#64ut. ee> patches for dealing with OIDs with specific key sizes associated in CMS.<p>
Janusz Sikociński <J.Sikociinski@#64gdzie.pl> addition of Features subpacket support to OpenPGP API.<p>
Juri Hudelejev <jhudelejev@#64gmail.com> JavaDoc fix to CMSignedDataParser.<p>
Liane Velten <liane.velten@#64bhp-consulting.com> fine tuning of code for DHP parameters validation.<p>
Shawn Willden <s willden@#64google.com> additional functionality to PGPKeyRing.<p>
Atanas Krachev <akrachev@#64gmail.com> added support for revocation signatures in OpenPGP.<p>
Mickael Laiking <mickael laiking@#64keynectis.com> initial cut of EAC classes.<p>
Tim Buktu <tbuktu@#64hotmail.com> Initial implementation of NTRU signing and encryption.<p>
Bernd <bernd@#64gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.<p>
Steing Inge Morisbak <stein.inge.morisbak@#64bekek.no> Test code for lower case Hex data in PEM headers.<p>
Andreas Schmid <andreas schmid@#64tngtech.com> Additional expiry time check in PGPublicKeys.<p>
Phil Steitz <phil steitz@#64gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.<p>
Petar Petrov <p petrov@#64bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.<p>
Daniel Fitzpatrick <daniel f nwr@#64gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.<p>
Andy Neilson <Andy Neilson@#64quest.com> a further patches to deal with multiple providers and PEMReader.<p>
Ted Shaw <xiao xj@#64gmail.com> patch to MiscPEMGenerator for handling new PKCS10 CertificationRequests.<p>
Eleriseth <Eleriseth@#64WPECGLYbyVt8Rl67Y7Vzl2Lvd2EUVW99v3yNV3IWRQG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.<p>
Kenny Root <kenny@#64the b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.<p>
Maarten Bodewes <maarten.bodewes@#64gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.<p>
Philip Clay <phil b@#64yahoo.com> Initial implementation of J-PAKE.<p>
Brian Carlstrom <bdc@#64carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.<p>
Samuel Lidéacuten Borell <samuel@#64primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinders.<p>
Sergio Demian Lerner <sergiolerner@#64certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.<p>
Tim Whittington <Tim Whittington@#64orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.
<li>Marcus Lundblad <marcus.lundblad@primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>

<l>Andrey Zhozhin <zhozhin@xrm.ru> patch for override of TSP SignerInfo attributes.</l>

<li>Sergey Tiuov <tiuov@064gmail.com> initial cut of DVCS classes.</li>

<li>Damian Kolasa <fatfred@064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.</li>

<li>Ash Hughes <ashley.hughes@064blueyonder.co.uk> patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>

<li>Daniel Hirscher <dev@064-daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.</li>

<li>Daniele Ricci <ricci@athome&064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.</li>

<li>Matti Aarnio <matti.aarnio@064matics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.</li>

<li>Babak Najafi <bnajafi@064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.</li>

<li>Eric Mueller <eric.mueller@064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.</li>

<li>Mathias Herberts <mathias.herberts@064gmail.com> fix to inOff usage in RFC3394WrapEngine.</li>

<li>Daniil Ivanov <iv@064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.</li>

<li>Daniele Grasso <daniele.grasso@064gmail.com> contributions to final Key calculation code for SRP6.</li>

<li>Andrey Utkin <cindrhc@064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>

<li>Arnis Tartu <arnis@064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>

<li>AxelVDB <axel-vdb@riseup.net> initial implementation of Shacal2.</li>

<li>Roberto Tyley <rtyley@064devmue.de> further work on completing gradle build.</li>

<li>Waldemar Dick <wdick@064devmue.de> code improvement in x500 ASN.1 package.</li>

<li>Sid Steward <sid.steward@064pdflabs.com> code improvements to ASN1Boolean.</li>

<li>Alex Klyubin <klyubin@064google.com> AlgorithmParameters check for EC key agreement.</li>

<li>Jonathan Gillett <gsc.student@064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>

<li>Andreas Reiter <andreas.reiter@064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>

<li>Kieran Miller <kieran.miller@064gmail.com> initial implementation for RFC 5649 key wrap with padding.</li>

<li>Oliver Ehli <ehli@064arago.de> Additional support for BSI plain ECDSA in the provider.</li>

<li>Daniel Heldt <daniel.heldt@064cryptovision.com> Initial support for encodable state message digests.</li>

<li>Robert Bushman <bouncycastle@064traxel.com> Clean up of DirectKeySignature example.</li>

<li>Maurice Aarts <maartens@064alicorn.com> updated to KDF generator to follow NIST SP 800-108.</li>

<li>Franziskus Kiefer <https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.</li>

<li>KB Sriram <mail_kb@064yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.</li>

<li>Marco Schulze <marco@064nightlabs.de> Reported verification bug in GenericSigner.</li>

<li>Martin Schaefer <https://github.com/martinschaefer> contributed a code-cleanup patch.</li>

<li>Lijun Liao <lijun.liao@064gmail.com> added iteration counter setters to PKCS#12 PBE mac/key generator builders.</li>

<li>Tobias Wich <tobias.wich@064ecsec.de> Provided patch for TLS to work around servers sending Supported
Elliptic Curves extension unexpectedly. /li>
<li>Hauke Mehtens <hauke&#064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251. /li>
<li>Daniel Zimmerman <dmz&#064galois.com> Further key quality improvements to RSAKeyPairGenerator. /li>
<li>Jens Kapitza &lt;jt.kapitza&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API. /li>
<li>82</li>
<li>Johan Eklund &lt;johan&#06482primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers. /li>
<li>nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length. /li>
<li>Axel von dem Bruch <axel-vdb&#064riseup.net> Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest. /li>
<li>Derek Atkins <derek&#064ihtfp.com> Documentation fixes to X9ObjectIdentifiers. /li>
<li>Peter Jr Halicky &lt;peto&#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator. /li>
<li>Thomas Belot &lt;thomas.belot+BC&#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue. /li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage. /li>
<li> Bjouml;rn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation). /li>
<li>Dominik Sch&amp;uuml;rmann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output. /li>
<li>Michael &lt;MSKnete&#064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys. /li>
<li>Tobias Wagner &lt;tobias.wagner&#064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [BJA-536]. /li>
<li>Sergio Giro &lt;sgiro&#06482google.com&gt; Fixed adding of additional stores from CRL distribution point [BJA-537]. Fixed missing null check for CRL certificate issuer [BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it. /li>
<li>bschuette &lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser. /li>
<li>Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally. /li>
<li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle&#064824xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC. /li>
<li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies. /li>
<li>Kai Kramer &lt;kai.kramer&#06482gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore. /li>
<li>Benoit Charles &lt;benoit.charles&#06482opentrust.com&gt; Fix for IES data length check on decryption. /li>
<li>Niko &lt;nfink95&#06482gmail.com&gt; fix to cast issue in getOutputSize() for ECIES. /li>
<li>akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys. /li>
<li>Matthias Edelhoff &lt;Matthias.Edelhoff&#06482cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes. /li>
<li>Lukasz Deputat &lt;lukasz.deputat&#06482gmail.com&gt; Fixed bugs in TlsUtils read methods [BJA-592]. /li>
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data. /li>
<li>Andr&eacute; Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
<li>Slawomir Jaranowski <https://github.com/slawekjaranowski> Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
<li>Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BIA-620].</li>
<li>jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BIA-620].</li>
<li>jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
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<li>William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BIA-620].</li>
<li>jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.</li>
<li>William Glanton <wglanton77@#064gmail.com> Fixed bug in Poly1305 [#BIA-620].</li>

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.

Thanks, may your castles never deflate!

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- Olga K&auml;thler <olga.kaethler@#064hp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@#064gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- N&uuml;a Mar&iacute; <numaa@#064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@#064tzi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@#064samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@#064comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.
- Ramon Keller <ramon.keller@#064gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@#064nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@#064ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienspasquier@#064free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@#064mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@#064rgp.pl> - addition of getTsa() to TimeStampTokenInfo.
- Bartosz Malkowski <bmalkow@#064tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@#064octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@#064gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes.
- Andrey Pavlenko <andrey.a.pavlenko@#064gmail.com> - security manager patch for PKCS1Encoding property check.
- Mike StJohns <mstjohns@#064comcast.net> - updates to KeyPurposeId.
- J Ross Nicoll <jrn@#064jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@#064yahoo.com> - patch to constructor for CRMF CertSequence.
- Gabriele Contini <gcontini@#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDFs.
- Roelof Naude <roelof.naude@#064epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.
- Patrick Peck <peck@#064signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
<li>Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre <alex@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].</li>
<li>Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre <alex@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].</li>
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<li>Alex Dupre <alex@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].</li>
<li>Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
Michael Smith <msmith@064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio <andrea.zilio@064gmail.com> fix for PEM password encryption of private keys.

Alex Birkett <alex@064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant <waynedgrant@064gmail.com> additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis <info@064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner <jan@064dittberner.info> addHeader patch for SMIME generator.

Bob McGowan <boab.mcgoo@064btinternet.com> patch to support different content and mgf digests in PSS signing.

Ivo Matheis <i.matheis@064seeburger.de> fix to padding verification in ISO-9796-1.

Marco Sandrini <nessche@064gmail.com> patch to add IV to ISO9797Alg3Mac.

Alf Malf <alfilmalf@064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa <alfonso.massa@064insiel.it> contributions to CMS time stamp classes.

Giacomo Boccardo <gboccardo@064unimatica Paolo.it> initial work on CMS TimelStampDataParser.

Arnis Tartu <arnis@064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociński <J.Sikociński@064gdzie.pl> addition of Features subpacket support to OpenPGP API.

Juri Hudolejev <jhudolejev@064gmail.com> JavaDoc fix to CMSSignedDataParser.

Liane Velten <liane.velten@064hjp-consulting.com> fine tuning of code for DHParameters validation.

Shawn Willden <swillden@064google.com> additional functionality to PGPKeyRing.

Atanas Krachev <akrachev@064gmail.com> added support for revocation signatures in OpenPGP.

Mickael Laiking <mickael.laiking@064keynectis.com> initial cut of EAC classes.

Tim Buktu <tbuktu@064hotmail.com> Initial implementation of NTRU signing and encryption.

Bernd <bernd@064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak <stein.inge.morisbak@064BEKK.no> Test code for lower case Hex data in PEM headers.

Andreas Schmid <andreas.schmid@064ntgtech.com> Additional expiry time check in PGPPublicKeys.

Phil Steitz <phil.steitz@064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin <ignat.korchagin@064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov <p.petrov@064hers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick <daniel.f.nwr@064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson <Andy.Neilson@064quest.com> a further patches to deal with multiple providers and PEMReader.

Ted Shaw <xiao.xj@064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth <Eleriseth@064WPECGLYbVii8Ri6Y7Vz2Lvd2EUVVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Ken Root <kenny@064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.

Maarten Bodewes <maarten.bodewes@064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay <pilf_b@064gyahoo.com> Initial implementation of J-PAKE.
Brian Carlstrom <bdc#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid<eacute;n Borell <samuel#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner <sergiolerner#064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington <Tim.Whittington#064orionhealth.com> patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputSteam implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad <marcus.lundblad#064primekey.se> patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin <zhozhin#064xrm.ru> patch for override of TSP SignerInfo attributes.

Sergey Tiunov <t5555d#064gmail.com> initial cut of DVCS classes.

Damian Kolasa <fatfredyy#064gmail.com> ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes <ashley.hughes#064blueyonder.co.uk> patches for supporting PGPPrivateKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher <dev#064daniel-hirscher.de> patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci <daniele.athome#064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aarnio#064mletics.fi> tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes.

Babak Najafi <bnajafi#064akamai.com> fixes to OpenPGP NotationData to prevent truncation problems.

Eric M<uuml;ller <eric.mueller#064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts#064gmail.com> fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov <daniil.ivanov#064gmail.com> addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso <daniele.grasso86#064gmail.com> contributions to final Key calculation code for SRP6.

Andrey Utkin <cindrhc#064gmail.com> patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu <arnis#064edu.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB <axel-vdb#064riseup.net> initial implementation of Shacal2.

Roberto Tyley <> further work on completing gradle build.

Waldemar Dick <wdick#064devmue.de> code improvement in x500 ASN.1 package.

Sid Steward <sid.steward#064pdflabs.com> code improvements to ASN1Boolean.

Alex Klyubin <klyubin#064google.com> AlgorithmParameters check for EC key agreement.

Jonathan Gillett <gsoc.student#064gmail.com> Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter <andreas.reiter#064iaik.tugraz.at> Reported incomplete status of CertificateVerify processing.
Kieran Miller <kieran.miller@064gmail.com> initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli<ehli@064arago.de> Additional support for BSI plain ECDSA in the provider.

Daniel Heldt<Daniel.Heldt@064cryptovision.com> Initial support for encodable state message digests.

Robert Bushman <bouncycastle@064travelx.com> Clean up of DirectKeySignature example.

Maurice Aarts<aarts@064riscure.com> updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer<https://github.com/franziskuskiefer> initial implementation of Cramer-Shoup.

KB Sriram<mail_kb@yahoo.com> testing for odd encodings for PGP User Attribute Subpackets.


Lijun Liao<jun.liao@064gmail.com> added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich<tobias.wich@064ecsec.de> Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens<hauke@064hauke-m.de> TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman<dmz@064galois.com> Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza<lj.kapitza@064schwarze-allianz.de> Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund<johan@064primekey.se> update to RFC 6960 for OCSPObjectIdentifiers.

nikosn<https://github.com/nikosn> Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch <axel-vdb@064riseup.net> Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2Digest.

Derek Atkins <derek@064htfp.com> Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky <peto@064halicky.sk> Correction to notification/error message handling in SignedMailValidator.


Thomas Belot<thomas.belot+BC@064gmail.com> initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce<https://github.com/rdicroce> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler<https://github.com/Vampire> Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schumann<https://github.com/dschuermann> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael <MSKnete@064web.de> initial fix for bitStrength issue for OpenPGP EC keys.

Tobias Wagner <tobias.wagner@064n-design.de> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro <sgiro@064google.com> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEkeys that require it.

bschuette<https://github.com/bschuette> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot<https://github.com/dalloatZazTag> Fix to S2K usage of none on changing passwords on keys
Jan Willem Janssen <j.w.janssen+bouncycastle@064lxtreme.nl> Support for DSAParame

Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.

Kai Kramer <kai.kramer@064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles <benoit.charles@064opentrust.com> Fix for IES data length check on decryption.

Niko <nfink95@064gmail.com> fix to cast issue in getOutputSize() for ECIES.

akwizgran <https://github.com/akwizgran> Fixed clone of key in Blake2bDigest copy constructor, Blake2b reset issue for variant keys.

Matthias Edelhoff <Matthias.Edelhoff@064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat <lukasz.deputat@064gmail.com> Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjFactory to handle stream packets at start of iterated data.

Andr&ecute; Berenguel <https://github.com/aberenguel> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jarosnowski <https://github.com/slawekjaronsowski> Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev <https://github.com/andrey-vasilyev> Initial implementation of GOST R 34.11-2012.

William Glanton <wglanton77@064gmail.com> Fixed bug in Poly1305 [#BJA-620].

jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle <jn.aegele@064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.

Gorka Irazoqui <girazoki@wpi.edu> from Intel Security Center of Excellence <https://security-center.intel.com/> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.

Joerg Senekowitsch <joerg.senekowitsch@064veridos.com> patch to deal with hard coded boolean in EAC ECDSA.PublicKey.

Alexandr Krivosht <wipe@064ya.ru> N4 calculation fix to GOBF mode.

Artem Storozhuk <storojs72@064gmail.com> N4 calculation fix to GOBF mode.

Na Yu <na.yu@064samsung.com> Constructor patches to CMC PKIData.

Evangelos Karatsiolis <ekaratsiolis@064mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.


Sebastian Wolfgang Roland <sebastianwolfgang.roland@064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.


Mike Safonov <https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA.

Artem Storozhuk <storojs72@064gmail.com> initial implementation of DSTU7564 (digest) and DSTU7624
1.23 cassandra-driver-core 3.1.4

1.24 cassandra-lucene-index-builder 3.10.0

:3.10.0

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1.25 cassandra-migration-tool 3.1.0.0

1.26 classmate 1.3.3

1.26.1 Available under license:

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.27 commons-beanutils 1.9.3

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<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
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import freemarker.cache.TemplateLoader;
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 * Removes the Apache copyright boiler plate from the beginning of the template, so that they don't mess up the expected template output. This can interfere with tests that try to test I/O errors and such low level things, so use with
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 */

public class CopyrightCommentRemoverTemplateLoader implements TemplateLoader {

    private final TemplateLoader innerTemplateLoader;

    public CopyrightCommentRemoverTemplateLoader(TemplateLoader innerTemplateLoader) {
        this.innerTemplateLoader = innerTemplateLoader;
    }

    public Object findTemplateSource(String name) throws IOException {
        return innerTemplateLoader.findTemplateSource(name);
    }

    public long getLastModified(Object templateSource) {
        return innerTemplateLoader.getLastModified(templateSource);
    }

    public Reader getReader(Object templateSource, String encoding) throws IOException {
        Reader reader = innerTemplateLoader.getReader(templateSource, encoding);
        try {
            String content = IOUtils.toString(reader);
            return new StringReader(TestUtil.removeFTLCopyrightComment(content));
        } finally {
            reader.close();
        }
    }

    public void closeTemplateSource(Object templateSource) throws IOException {
        innerTemplateLoader.closeTemplateSource(templateSource);
    }
}

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1.67 HdrHistogram 2.1.9

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</head>

<body>

<!-- Navigation -->
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<div class="navbar-header">
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<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="/" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
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<li><a href="/foundation">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
</ul>
</li>
</ul>
</div>
</nav>
</header>

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1.118 jsch 0.1.54

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1.130 kryo-shaded 4.0.2

1.131 libpsl 0.17.0-3
1.131.1 Available under license:

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1.133 log4j-api 2.7

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1.139 mapstruct 1.0.0

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1.140 metrics 3.1.4

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<ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a>
<ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board - Annotated</a></li></ul></li></ul></li><li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/trademark" title="Trademark &amp; Logo" class="sf-depth-2 menuparent">Trademark &amp; Logo</a>
<ul><li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines" title="Trademark Guidelines" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a href="/ToS" title="Terms of Service" class="sf-depth-2">Terms of Service</a></li></ul></div>

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----------------------------------------------------------------------
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Upstream-Name: Node
Source: http://nodejs.org/
Repackaged to exclude non-DFSG files in
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Conveniently, remove unused software to simplify this file maintenance:
./deps/npm/
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./deps/zlib/
./deps/cares/
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lib/_debugger.js
lib/_linklist.js
lib/_stream_duplex.js
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test/message/max_tick_depth.js
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 test/pummel/test-timer-wrap2.js
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test/pummei/test-tls-throttle.js
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 test/pummei/test-watch-file.js
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 test/simple/test-child-process-double-pipe.js
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 test/simple/test-child-process-exit-code.js
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 test/simple/test-child-process-fork-dgram.js
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test/simple/test-cluster-bind-twice-v2.js

test/simple/test-cluster-dgram-1.js

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#test/simple/test-util-format.js
#test/simple/test-util-inspect.js
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|| IsInRange(AsciiAlphaToLower, 'a', 'f');
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```javascript

const fs = require('fs');
const http = require('http');
const https = require('https');
const http2 = require('http2');
const https2 = require('https2');

const server = http.createServer;
const httpsServer = https.createServer;
const http2Server = http2.createServer;
const https2Server = https2.createServer;

server.listen(8124, function () { //listening listener
  console.log('server bound');
});

server.on('connection', function(c) { //connection listener
  console.log('server connected');
  c.on('end', function() {
    console.log('server disconnected');
  });
  c.write('hello\r\n');
  c.pipe;
});
```

Test this by using
To listen on the socket `/tmp/echo.sock` the third line from the last would just be changed to:

```javascript
server.listen('/tmp/echo.sock', function() { // 'listening'
  listener
  console.log('server connected');
  c.on('end', function() {
    console.log('server disconnected');
  });
  c.write('hello\r\n');
  c.pipe;
});
server.listen(8124, function() { // 'listening'
  console.log('server bound');
});
```

Test this by using:

```bash
telnet localhost 8124
```

Use `nc` to connect to a UNIX domain socket server:

```bash
nc -U /tmp/echo.sock
```

RETURN

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**Files**

- `doc/api/all.json`
- `doc/api/net.markdown`
- `doc/api/readline.markdown`
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 */
```

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```
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<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse"> 
<span class="sr-only">Toggle navigation</span> 
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button> 

<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div> 

<div class="collapse navbar-collapse" id="mainnav-collapse"> 

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right"> 

<li class="dropdown"> 
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu"> 

<li><a href="/foundation/">Overview</a></li> 

</ul>

</li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

</ul>

</div> 

</div> 

</nav> 

</header> 

</body>
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
   Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function:`{ case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)
^   
not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
   Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple2,
   or consider a pattern matching anonymous function:`{ case (param1, param2) => ... }
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
^   
not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
   Note: Tuples cannot be directly destructured in method or function parameters.
   Either create a single parameter accepting the Tuple3,
   or consider a pattern matching anonymous function:`{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^   
three errors found

class C {
  val x: ((Int, Int) => Int) = (((a, b)) => a)
  val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
  val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
}

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1.178 servo-core 0.10.1

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1.5.4

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>>> ASM 4.0 (org.ow2.asm:asm)

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>>> org.apache.maven:maven-model-builder
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1.194 spring-boot-starter-data-cassandra

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>>> JOpt Simple (net.sf.jopt-simple:jopt-simple)
>>> ASM 4.0 (org.ow2.asm:asm)

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>>> Apache Commons Codec (commons-codec:commons-codec)
>>> Apache HttpClient (org.apache.httpcomponents:httpclient)
>>> Apache HttpCore (org.apache.httpcomponents:htpcore)
>>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
>>> Plexus Security Dispatcher Component (org.sonatype.plexus:plexus-sec-dispatcher)
>>> Apache Commons Logging (commons-logging:commons-logging)
>>> Apache Groovy (org.codehaus.groovy:groovy)
>>> Maven Aether Provider (org.apache.maven:maven-aether-provider)
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>>> Aether Connector Basic (org.eclipse.aether:aether-connector-basic)
>>> Aether Implementation (org.eclipse.aether:aether-impl)
>>> Aether SPI (org.eclipse.aether:aether-spi)
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>>> org.apache.httpcomponents:httpcore
>>> org.sonatype.plexus:plexus-cipher
>>> org.sonatype.plexus:plexus-sec-dispatcher
>>> commons-logging:commons-logging
>>> org.codehaus.groovy:groovy
>>> org.apache.maven:maven-aether-provider
>>> org.apache.maven:maven-model
>>> org.apache.maven:maven-model-builder
>>> org.apache.maven:maven-repository-metadata
>>> org.apache.maven:maven-settings
>>> org.apache.maven:maven-settings-builder
>>> org.codehaus.plexus:plexus-component-annotations
>>> org.codehaus.plexus:plexus-utils
>>> org.codehaus.plexus:plexus-component-api
>>> org.codehaus.plexus:plexus-interpolation
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>>> ASM 4.0 (org.ow2.asm:asm)

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>>> JSON library from Android SDK (com.vaadin.external.google:android-json)
>>> Apache Commons Codec (commons-codec:commons-codec)
>>> Apache HttpClient (org.apache.httpcomponents:httpclient)
>>> Apache HttpCore (org.apache.httpcomponents:httpcore)
>>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
>>> Plexus Security Dispatcher Component (org.sonatype.plexus:plexus-sec-dispatcher)
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>>> Maven Aether Provider (org.apache.maven:maven-aether-provider)
>>> Maven Model (org.apache.maven:maven-model)
>>> Maven Model Builder (org.apache.maven:maven-model-builder)
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>>> org.apache.maven:maven-model
>>> org.apache.maven:maven-model-builder
>>> org.apache.maven:maven-repository-metadata
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1.238 spring-security-web 4.2.3

1.239 spring-session 1.3.1

1.240 spring-session-data-redis 1.3.1

1.241 spring-session-jdbc 1.3.1

1.242 spring-tuple 1.0.0

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1.243 spring-tx 4.3.9

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1.251 springfox-swagger-common 2.6.0
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1.252 springfox-swagger2 2.6.0

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1.253 swagger 1.5.10

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```java
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;
import java.util.HashMap;
import java.util.Map;

public class License {
    private final Map<String, Object> vendorExtensions = new HashMap<String, Object>();
    private String name;
    private String url;

    public License name(String name) {
        setName(name);
        return this;
    }

    public License url(String url) {
        setUrl(url);
        return this;
    }

    public String getName() {
```

Open Source Used In Open Source Used In MSX Platform Services 3.5.1
1162
public void setName(String name) {
    this.name = name;
}

public String getUrl() {
    return url;
}

public void setUrl(String url) {
    this.url = url;
}

@JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((name == null) ? 0 : name.hashCode());
    result = prime * result + ((url == null) ? 0 : url.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    License other = (License) obj;
    if (name != null && !name.equals(other.name)) {
        return false;
    }
    if (url != null && !url.equals(other.url)) {
        return false;
    }
    return true;
}
if (name == null) {
    if (other.name != null) {
        return false;
    }
} else if (!name.equals(other.name)) {
    return false;
}
if (url == null) {
    if (other.url != null) {
        return false;
    }
} else if (!url.equals(other.url)) {
    return false;
}
return true;
}
/**
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 */

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

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1.254 swagger-annotations 1.5.12
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<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
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<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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- web-common_3_0.xsd
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University of Cambridge Computing Service,
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1.263 xalan 2.7.1

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1.265 Xerces-J 2.8.0

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1.274 zuul-core 1.3.0

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