Open Source Used In Managed Services Accelerator Platform Services 3.5.1

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1.6 apache-el 8.0.33

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```html
<!DOCTYPE html>
<html lang="en">
<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">
<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">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/android-chrome-192x192.png" sizes="192x192">
<link rel="manifest" href="/manifest.json">
<link rel="shortcut icon"href="/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/msTile-144x144.png">
<meta name="msapplication-config" content="/browserconfig.xml">
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</head>

<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> &raquo <a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="/foundation/" 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>
</nav>

<!--end header -->
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- Conferences
- Summer of Code
- Getting Started
- The Apache Way
- Travel Assistance
- Get Involved
- Community FAQ
- Memorials
1.7 archaius-core 0.7.4

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1.8 asm 5.1

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1.21 bouncycastle 1.56

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.
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Markus Niedermann <markus.niedermann&#064;softwired-inc.com> - porting information and restrictions when using the lightweight library with the MIDP environment.
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Soren Hilmer <hilmer&#064;mail.tele.dk> - initial implementation of netscape certificate request classes.
Uwe Guenther <uwe&#064;cssc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.
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<li>Eugen Kuleshov <euxx@#64;hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>

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Jan Dvorak <jan.dvorak@#064mathan.cz> - initial implementation of the light weight Null block cipher.

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Chris Long <slaclong@#064ece.cm.edu> - adding public key decoding to PEMReader.

Hes Siemelink <hes@#064izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSizePolicy() fix for zero length messages in SMIMEMessage.

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Nickolay Bolshakov <tyrex@064rekssoft.ru> - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer <soren.hilmer@064stadenavator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell <mitchell@064intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
<li>Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier <julienpasquier@#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson <andrew.paterson@#064burnsec.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov <vladimir.n.molotkov@#064intel.com> - extensive provider exception handling compliance testing.</li>
<li>Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier <julienpasquier@#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson <andrew.paterson@#064burnsec.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
<li>Vladimir Molotkov <vladimir.n.molotkov@#064intel.com> - extensive provider exception handling compliance testing.</li>
<li>Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier <julienpasquier@#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
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<li>Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 7816-4 padding.</li>
<li>Julien Pasquier <julienpasquier@#064free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
<li>Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.</li>
<li>Andrew Paterson <andrew.paterson@#064burnsec.com> - patches to PGP tools, isRevoked method on PGPPublicKey.</li>
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 X509Name. 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 implicitDSA 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@064tradise.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 H&auml;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@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding (/li>
<li>Thomas Dixon <DStacey@allantgroup.com> - addition of crlAccessMethod in X509ObjectIdentifiers.</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 <DSacey@064alliantgroup.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@064partner.de> - GnupG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&auml;uhler <olga.kaehler@064hip-consulting.com> - initial implementation of TeleTruS T 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; &lt;numar&#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js&#0646tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike&#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns&#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA.</li>
<li>Ramon Keller &lt;ramon.keller&#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark&#064064nb.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff&#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;pknopp&#0646mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozdz &lt;gwozdziu&#0646tpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow&#064tigase.org&gt; - initial implementation of VMPC cipher, VMPRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko&#064064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>Mike StJohns &lt;mstjohns&#064comcast.net&gt; - updates to KeyPurposeId</li>
<li>J Ross Nicoll &lt;jrnr&#06446jr.mw.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;marvinxzz&#0646yahoocom&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini&#06464hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_Certificate_REQUEST.</li>
<li>Patrick Peck &lt;peck&#064064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymmd&#06464lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale&#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]</li>
<li>Michael Schoene &lt;michael&#064064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larra&amp;ntilde;aga &lt;jlarra&#06464s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns&#06464positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer&#064ewe.de&gt; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui&#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic&#064064mail.com&gt; initial implementation of Grain-v1 and Grain-128.
<li>Torbjorn Svensson <tobbe79&#064gmail.com> initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick <bouncycastle_pfitz&#064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson <henrik.andersson&#064gmail.com> addition of UniquelssuerID to certificate generation.</li>
<li>Cagdas Cirit <cagdascirit&#064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri <harakiri_23&#064yahoo.com> datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques <pmahenriques&#064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer <job&#064kimmeringer.de> verbose mode for ASN1Dump, support for DEREternal.</li>
<li>Richard Farr <rfarr.se&#064gmail.com> initial SRP-6a implementation.</li>
<li>Thomas Castiglione <castiglione&#064ibm.com> patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani <eromani&#064sogei.it> patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren <737lundgren&#064gmail.com> CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec <smnorgil&#064064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener <antener_a&#064064gm.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat <hsrawat&#064yahoo.com> fix for BERConstructerOctetString.</li>
<li>Rolf Lindemann <lindemann&#064064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov <alexart.home&#064gmail.com> name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons <mlyons&#064layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole <chris_h_cole&#064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomás Krivanek <tom&#064064aattack.cz> added checking of Sender header to SignedMailValidator.</li>
<li>Michael <emfau&#064064mx.ch> correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin <trevor&#064064cryptography.com> addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kiläring <markus&#064064primekey.se> several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic <darionis&#064064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith <msmith&#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio <andrea.zilio&#064gmail.com> fix for PEM password encryption of private keys.</li>
<li>Alex Birkett <alex&#064044birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant <waynedgrant&#064gmail.com> additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis <info&#064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner <jan&#064064dittberner.info> addHeader patch for SMIME generator.</li>
<li>Bob McGowan <boab.mcgoo&#064btinternet.com> patch to support different content and mgf digests in PSS signing.</li>
<li>Ivo Matheis <i.matheis&#064seeburger.de> fix to padding verification in ISO-9796-1.</li>
<li>Marco Sandrini <nessche&#064gmail.com> patch to add IV to ISO9797Alg3Mac.</li>
<li>Alf Malf <allfilmalf&#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
<li>Alfonso Massa <alfonso.massa@#064insiel.it> contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo <gboccardo@#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu <arnis#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociński <j.sikociinski@#064gdzie.pl> addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev <jhudolejev@#064gmail.com> JavaDoc fix to CMSignedDataParser.</li>
<li>Liane Velten <liane.velten@#064bjp-consulting.com> fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden <swillden@#064google.com> additional functionality to PGPKeyRing.</li>
<li>Atanas Krachev <akrachev@#064gmail.com> added support for revocation signatures in OpenPGP.</li>
<li>Tim Buktu <tbuktu@#064hotmail.com> Initial implementation of NTRU signing and encryption.</li>
<li>Bernd <bernd@#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak <stein.inge.morisbak@#064BEKK.no> Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid <andreasschmid@#064tngtech.com> Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz <phil.steitz@#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov <spetrov@#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>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.</li>
<li>Andy Neilson <Andy.Neilson@#064quest.com> a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw <xiao.xj@#064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUVVW99v3yNV3IWROG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root <kenny@#064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AAD.</li>
<li>Maarten Bodewes <maarten.bodewes@#064gmail.com> initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay <phil_b@#064yahoo.com> Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom <bdc@#064carlstrom.com> compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lidé &eacute;n Borell <samuel@#064primekey.se> patch to add DSTU-4145 to DefaultSignatureAlgorithmFinders.</li>
<li>Sergio Demian Lerner <sergiolerner@#064certimix.com> pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>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 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>
<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>

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

<li>Sergey Tionov <sht5555d@064gmail.com> initial cut of DVCS classes.</li>

<li>Damian Kolasa <fatfredyy@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 <daniele.athome@064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.</li>

<li>Matti Aarnio <matti.aarnio@064mecthis.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 Muller <eric.mueller@064sage.de> additional standard algorithm name lookups in JcaPEMKeyConverter.</li>

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

<li>Daniil Ivanov <daniil.ivanov@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 <robeto@064davids.com> further work on completing gradle build.</li>

<li>Waldemar Dick <wdick@064davids.com> 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 <gsoc.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 encondable state message digests.</li>

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

<li>Maurice Aarts <maarts@064isecure.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@yahoo.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 count 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 &lt;hauke@hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz@64galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jt.kapitza@64schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan@64primekey.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 &lt;axel-vdb@64riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@64iihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@64halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>Thomas Belot &lt;thomas.belot+BC@gmail.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>Bj&ouml;rn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&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@64web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys.</li>
<li>Tobias Wagner &lt;tobias.wagner@64n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
<li>Sergio Giro &lt;sgiro@64google.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@64lxteme.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@64gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoi Charles &lt;benoit.charles@64openpentrust.com&gt; Fix for IES data length check on decryption.</li>
<li>Niko &lt;nfink95@64gmail.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@64cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
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<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.
<li>André Berenguel <a href="https://github.com/aberenguel">Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</a></li>
<li>Slawomir Jaranowski <a href="https://github.com/slawekjaranowski">Patch to make cipher/hash/signature name methods in PGP internal API public.</a></li>
<li>Andrey Vasilyev <a href="https://github.com/andrey-vasilyev">Initial implementation of GOST R 34.11-2012.</a></li>
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<li>jdvorak001 <a href="https://github.com/jdvorak001">Speed improvements for ASN.1 ObjectIdentifier cache.</a></li>
<li>Joseph Naegle <a href="jnaegele@grierforensics.com">Patch for handling multiple certificates in a DANE SMIMEA entry.</a></li>
<li>Andrew Bonventre <a href="https://github.com/andybons">NullPointer patch for WNafUtil.</a></li>
<li>The Google Security Team (Project Wycheproof) <a href="https://github.com/google/wycheproof">defect analysis and additional test cases for the provider.</a></li>
<li>The Intel Security Team <> analysis detecting the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine.</li>
</ul>

1.22 bouncycastle 1.58

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- Steve Mitchell <mitchell@intertrust.com> - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
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- Larry Bugbee <bugbee@64mac.com> - initial ECNRI implementation.
- Remi Blancher <Remi.Blancher@64keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O’Rourke <brianorourke@64gmail.com> - patch for signature creation time override in OpenPGP.
- Andreas Schwier <andreas.schwier@64cardcontact.de> - initial implementation of ISO9797 MAC Algorithm.
3, addition of DES-EDE 64 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.

David Josse <david.josse@transacttools.net> - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko <kazu-k@hiro.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan <wrnctan@64gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente <superdupont@64gmail.com> - Addition of CRL writing to the PEMWriter class.

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.

Olaf Keller, <olaf.keller.bc@64bluewin.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.

Jörg Eichhorn <eichhorn@ponton-consulting.de> - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme <widerstand@64t-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 X509Name. 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.

Carlos Lozano Ruiz <carlos@tradise.com> - patch for <ctrl><m> only handling in CRLFOutputStream.

John Alfred Prufrock <j.a.prufrock@64gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen <sneusatz@64gmail.com> - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice <marzio.logiudice@64gmail.com> - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold <georg.lippold@64gmx.de> - initial implementation of NaccacheStern cipher.

Chris Viles <chris_viles@64yahoo.com> - fix to SignatureSubpacket critical bit setting.

Pasi Eronen <Pasi.Eronen@nokia.com> - extra toString() support for ASN.1 library. Initial patch for large OID components.

Lijun Liao <lijun.liao@64rub.de> - performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream.

Maria Ivanova <maria.ivanova@64gmail.com> - support for tags > 30 in ASN.1 parsing.

Armin Hartung <arminha@student.ethz.ch> - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder <mschilder@64google.com> - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch <xavier@64brittanysoftware.com> - general code clean ups.
<li>Erik Tews <e_tews@cdc.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 <rjoaquim@#064cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey <DStacey@allantgroup.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@#064rtner.de> - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&auml;thler <olga.kaethler@#064hjp-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&uacute;ria Mar&iacute; <numaa@#064hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.</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 <mstjohns@#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@#064nbro.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 TLSInputStream.</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 <pknopp@#064mtg.de> - fix for named curve recognition in ECOST key generation.</li>
<li>Jakub Gwozdz <gwozdziu@#064rp.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 <mstjohns@#064comcast.net> - updates to KeyPurposeId</li>
<li>J Ross Nicoll <jrn@#064jrn.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@#064hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDFs.</li>
<li>Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck <peck@#064signature.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd@064lemaymd.com> - identified problem with EAX [#BJA-93].

Alex Dupre <ale@064FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90].

Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene <michael@064sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Jon Larrañutilde;aga <jilarra@064s21sec.com> fix to default partial packet generation in BCPPROutputStream.

Bob Kerns <bob.kerns@064postsicence.com> fix to hashCode for X509CertificateObject.

Stefan Meyer <stefan.meyer@064ewe.de> backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore <Robert.J.Moore@allanbank.com> speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai <rui@064po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucalovic@064mail.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@064fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

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

Cagdas Cirtilt <cagdas@064gmail.com> subjectAlternativeName fix for x509CertStoreSelector.

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

Pedro Henriques <pmahreniquest@064gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimminger <job@064kimminger.de> verbose mode for ASN1Dump, support for DERExternal.

Richard Farr <rfarr.se@064gmail.com> initial SRP-6a implementation.

Thomas Castiglione <castiglione@064au.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 <mormegil@064centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener <antener_a@064gx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.

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

Rolf Lindemann <lindemann@064trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov <alextart.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 colego@064yahoo.com> identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek <tom@064aattack.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@064cryptochemistry.com> addition of constant time equals to avoid possible timing attacks.

Markus Kilâringen <markus@064primekey.se> several enhancements to TimeStampResponseGenerator.

Dario Novakovic <darionis@064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
<li>Michael Smith <msmith@064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio <andreazilio@064gmail.com> fix for PEM password encryption of private keys.</li>
<li>Alex Birkett <alex@064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>
<li>Wayne Grant <waynedgrant@064gmail.com> additional OIDs for PCKS10 and certificate generation support.</li>
<li>Frank Cornelis <info@064frankcornelis.be> additional support classes for CAdES, enhancements to OCSP classes.</li>
<li>Jan Dittberner <jan@064dittberner.info> addHeader patch for SMIME generator.</li>
<li>Bob McGowan <boab.mcgoo@064btinternet.com> patch to support different content and mgf digests in PSS signing.</li>
<li>Ivo Matheis <i.matheis@064seeburger.de> fix to padding verification in ISO-9796-1.</li>
<li>Andrea Zilio <andreazilio@064gmail.com> fix for PEM password encryption of private keys.</li>
<li>Alf Malf <alfmal@064hotmail.com> removal of unnecessary limit in CMSCContentInfoParser.</li>
<li>Alfonso Massa <alfonso.massa@064insiel.it> contributions to CMS time stamp classes.</li>
<li>Giacomo Boccardo <gboccardo@064unimaticasp.it> initial work on CMSTimeStampedDataParser.</li>
<li>Arnis Tartu <arnis@064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski <J.Sikocinski@064gdzie.pl> addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev <jhudolejev@064gmail.com> JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten <liane.velten@064hp-consulting.com> fine tuning of code for DHP parameters validation.</li>
<li>Shawn Willden <swillden@064google.com> additional functionality to PGPKKeyRing.</li>
<li>Atanas Krachev <akrachev@064gmail.com> added support for revocation signatures in OpenPGP.</li>
<li>Mickael Laiking <mickael.laiking@064keynectis.com> initial cut of EAC classes.</li>
<li>Tim Buktu <tbuktu@064hotmail.com> Initial implementation of NTRU signing and encryption.</li>
<li>Bernd <bernd@064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak <stein.inge.morisbak@064BEKK.no> Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid <andreas.schmid@064ntgtech.com> Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz <phil.steitz@064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Ignat Korchagin <ignat.korchagin@064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
<li>Petar Petrov <p.petrov@064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>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.</li>
<li>Andy Neilson <Andy.Neilson@quest.com> a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw <xiao.xj@064gmail.com> patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriset <eleriset@064WPECGLYbVi8Ri6Y7VzI2Lvd2EUWV99v3yNV3IWRG8.fms> speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root <kenny@064the-b.org> patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes <maarten.bodewes@064gmail.com> initial implementation of HKDF and NIST SP 80-108 MAC based KDF functions.</li>
<li>Philip Clay <phil_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 Lidéacuté: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/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.

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 <s5555d@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 PGPSecretKeyRing/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.

Danielle Ricci <danielle.athome@064gmail.com> initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio <matti.aario@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.

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

Eric Mu&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.

Danielle 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@064ut.ee> checker for generated key vs OID in JceCMSContentEncryptorBuilder.

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

Roberto Tyley <dev> further work on completing gradle build.

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

Sid Steward <sid.steward@064pfiflacs.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@064iaa.tugraz.at> Reported incomplete status of CertificateVerify processing.
in (D)TLS server, and provided fix.\</li>
<li>Kieran Miller &lt;kieran.miller@#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.\</li>
<li>Oliver Ehli &lt;ehli@#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.\</li>
<li>Daniel Heldt &lt;Daniel.Heldt@#064cryptovision.com&gt; Initial support for encodable state message digests.\</li>
<li>Robert Bushman &lt;bouncycastle@#064traxel.com&gt; Clean up of DirectKeySignature example.\</li>
<li>Maurice Aarts &lt;maarts@#064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.\</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.\</li>
<li>KB Sriram &lt;mail_kb@#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.\</li>
<li>Maurice Aarts &lt;maarts@#064riscure.com&gt; Additional support for BSI plain ECDSA in the provider.\</li>
<li>Jens Kapitza &lt;jkapitza@#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.\</li>
<li>Hauke Mehrtens &lt;hauke@#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.\</li>
<li>Daniel Zimmerman &lt;dmz@#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.\</li>
<li>Maurice Aarts &lt;maarts@#064riscure.com&gt; Additional support for BSI plain ECDSA in the provider.\</li>
<li>KB Sriram &lt;mail_kb@#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.\</li>
<li>Maurice Aarts &lt;maarts@#064riscure.com&gt; Additional support for BSI plain ECDSA in the provider.\</li>
<li>KB Sriram &lt;mail_kb@#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.\</li>
<li>Maurice Aarts &lt;maarts@#064riscure.com&gt; Additional support for BSI plain ECDSA in the provider.\</li>
<li>KB Sriram &lt;mail_kb@#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.
without passwords originally.</li>
<li>Jan Willem Janssen <j.w.janssen+bouncycastle@064lxteme.nl> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial content signer verifier for BC lightweight EC.</li>
<li>Sebastian Oerding <sebastian.oerding@robotron.de> Fixes to toString() in x509.CertificatePolicies.</li>
<li>Kai Kramer <kai.kramer@064gmail.com> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
<li>Benoit Charles <benoit.charles@064openpentrust.com> Fix for IES data length check on decryption.</li>
<li>Niko <nfink95@064gmail.com> fix to cast issue in getOutputSize() for ECIES.</li>
<li>akwizgran <https://github.com/akwizgran> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
<li>Matthias Edelhoff <Matthias.Edelhoff@064cryptovision.com> BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
<li>Lukasz Deputat <lukasz.deputat@064gmail.com> Fixed bugs in TLSUtils read methods [#BJA-592].</li>
<li>Justin Ludwig <https://github.com/justinludwig> Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.</li>
<li>Andr&ecut;e 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 [#BJA-620].</li>
<li>jdvorak001 <https://github.com/jdvorak001> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele <jnaegele@064grierforensics.com> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre <https://github.com/andybons> NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof> defect analysis and additional test cases for the provider.</li>
<li>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.</li>
<li>Joerg Senekowitz <jorg.senekowitz@064veridos.com> patch to deal with hard coded boolean in EAC ECDSAParameterKey.</li>
<li>Alexandr Krivoshta <wipe@064ya.ru> N4 calculation fix to GOBF mode.</li>
<li>Artem Storozhuk <storozh72@064gmail.com> N4 calculation fix to GOBF mode.</li>
<li>Na Yu <na.yu@064samsung.com> Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis <ekaratsiolis@064mtg.de> Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren <https://github.com/VivleSoren> additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig <https://github.com/mtausig> JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland <sebastianwolfgang.roland@064stud.tu-darmstadt.de> Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft <https://github.com/didisoft> test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov <https://github.com/MikeSafonov> initial implementation of GOST3410-2012 for light weight provider and JCA.</li>
<li>Artem Storozhuk <storozh72@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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*/
package freemarker.test;
import java.io.IOException;
import java.io.Reader;
import java.io.StringReader;
import org.apache.commons.io.IOUtils;
import freemarker.cache.TemplateLoader;
import freemarker.test.utility.TestUtil;

/**
* 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

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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<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<style type="text/css">
li {display: block;}
</style>
</head>
<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">

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1.128 kryo 4.0.2

1.129 kryo-parent 4.0.2

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JUnit

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1.130 kryo-shaded 4.0.2

1.131 libpsl 0.17.0-3
1.131.1 Available under license :

* The following License is for the source code files psl-make-dafsa and lookup_string_in_fixed_set.c.

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@end enumerate

@end enumerate

@end enumerate

@end enumerate
the ``copyright'' line and a pointer to where the full notice is found.

@example
@file{one line to give the program's name and a brief idea of what it does.}
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@end example

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@example
@file{program} Copyright (C) @file{year} @file{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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program's commands might be different; for a GUI interface, you would
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1.133 log4j-api 2.7

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Upstream-Name: Node
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./deps/zlib/
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lib/_debugger.js
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lib/_stream_duplex.js
lib/_stream_passthrough.js
lib/_stream_readable.js
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src/node_extensions.cc
test/disabled/test-child-process-custom-fds.js
test/disabled/test-debug-brk-file.js
test/disabled/test-dgram-multicast.js
test/disabled/test-dgram-send-error.js
test/disabled/test-dgram-unix-anon.js
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test/disabled/test-dns.js
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test/fixtures/GH-1899-output.js
test/fixtures/GH-892-request.js
test/fixtures/a.js
test/fixtures/a1.js
test/fixtures/b/c.js
test/fixtures/b/d.js
test/fixtures/b/package/index.js
test/fixtures/break-in-module/mod.js
test/fixtures/catch-stdout-error.js
test/fixtures/child_process_should_emit_error.js
test/fixtures/create-file.js
test/fixtures/cycles/folder/foo.js
test/fixtures/cycles/root.js
test/fixtures/echo.js
test/fixtures/exit.js
test/pummel/test-tls-throttle.js
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test/pummel/test-watch-file.js
test/simple/helper-debugger-repl.js
test/simple/net-socket-readystate.js
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test/simple/test-abort-fatal-error.js
test/simple/test-arraybuffer-slice.js
test/simple/test-assert.js
test/simple/test-bad-unicode.js
test/simple/test-buffer-ascii.js
test/simple/test-buffer-concat.js
test/simple/test-buffer-regress-GH-2659.js
test/simple/test-buffer.js
test/simple/test-c-ares.js

test/simple/test-chdir.js


test/simple/test-child-process-buffering.js


test/simple/test-child-process-cwd.js

test/simple/test-child-process-detached.js

test/simple/test-child-process-disconnect.js

test/simple/test-child-process-double-pipe.js


test/simple/test-child-process-env.js

test/simple/test-child-process-exec-cwd.js

test/simple/test-child-process-exec-env.js

test/simple/test-child-process-exec-error.js

test/simple/test-child-process-exit-code.js


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deps/v8/tools/tickprocessor-driver.js
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deps/v8/tools/utils.py
test/gc/testcfg.py
test/internet/testcfg.py
test/message/testcfg.py
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Files: deps/http_parser/LICENSE-MIT
deps/http_parser/http_parser.h
deps/uv/Makefile
deps/uv/build.mk
deps/uv/config-mingw.mk
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deps/uv/include/uv-private/uv-bsd.h
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src/tree.h
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deps/v8/src/third_party/valgrind/valgrind.h
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Files: test/simple/test-stream2-basic.js
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header and trailing whitespaces check failed"
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header." % name
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|| IsInRange(AsciiAlphaToLower, 'a', 'f');
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c.kill();
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this.buffer.push(c.toString());
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   { c.destroy() );
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   { this.buf += c; }
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   { data += c });
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Copyright: != -1 || // ID-char
{ return c.val; }
{ return sc_SYMBOL_PREFIX + c.val; }
|| c === SC_EOF_OBJECT;
|| needing == ")")
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{ return c.indexOf(line) == 0 })
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\n console.log(&amp;#39;server connected&amp;#39;);
\n c.on(&amp;#39;end&amp;#39;, function() {\n console.log(&amp;#39;server disconnected&amp;#39;);
 });\n\n c.write(&amp;#39;hello\n\n c.pipe();\n\n server.listen(8124, function() { //&amp;#39;listening&amp;#39; listener
\n console.log(&amp;#39;server bound&amp;#39;);
 });\n});</code></pre>
<p>Test this by using
To listen on the socket `localhost`:

```
telnet localhost 8124
```

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

```
server.listen('/tmp/echo.sock', function() { // 'listening'

listener.on('error', function(err) {
  console.error('Error listening on socket
`/tmp/echo.sock`: ', err)
});
```

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

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

Test this by using:

```
telnet localhost 8124
```

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Files: doc/api/all.json

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1.166 ribbon 2.2.2

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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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1.5.4

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>>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
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>>> Maven Repository Metadata Model (org.apache.maven:maven-repository-metadata)
>>> Maven Settings (org.apache.maven:maven-settings)
>>> Maven Settings Builder (org.apache.maven:maven-settings-builder)
>>> Plexus :: Component Annotations (org.codehaus.plexus:plexus-component-annotations)
>>> Plexus Common Utilities (org.codehaus.plexus:plexus-utils)
>>> Plexus Component API (org.codehaus.plexus:plexus-component-api)
>>> Plexus Interpolation API (org.codehaus.plexus:plexus-interpolation)

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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)
>> Aether Transport File (org.eclipse.aether:aether-transport-file)
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1.194 spring-boot-starter-data-cassandra

1.5.4

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>>> 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:httpcore)
>>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
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Maven Model (org.apache.maven:maven-model)
Maven Model Builder (org.apache.maven:maven-model-builder)
Maven Repository Metadata Model (org.apache.maven:maven-repository-metadata)
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Maven Settings Builder (org.apache.maven:maven-settings-builder)
Plexus :: Component Annotations (org.codehaus.plexus:plexus-component-annotations)
Plexus Common Utilities (org.codehaus.plexus:plexus-utils)
Plexus Component API (org.codehaus.plexus:plexus-component-api)
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1.213 spring-data-cassandra 1.5.4

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1.227 spring-plugin 1.2.0
1.228 spring-plugin-core 1.2.0

1.229 spring-plugin-metadata 1.2.0

1.230 spring-retry 1.2.0

1.231 spring-security-config 4.2.3

1.232 spring-security-core 4.2.3

1.233 spring-security-crypto 4.2.3

1.234 spring-security-jwt 1.0.8

1.235 spring-security-oauth2 2.0.14

1.236 spring-security-rsa 1.0.3
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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

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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() {
        return 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) {
        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;
}
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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<html lang="en">
<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">
<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">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
```
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- javaee_web_services_client_1_3.xsd
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1.257 v8 6.8.275.32

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End
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1.258 validation-api 1.1.0

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