



# Open Source Used In Network Services Orchestrator (NSO) (version 5.2) 5.2

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Thanks, may your castles never deflate!

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</li>

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<li>Shankar Srinivasan &lt;ssr002&#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>

<li>Stef Hoeben &lt;ilsestef&#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>

<li>Klaudiusz Ciosk &lt;kciosk&#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>

<li>Thomas Houtekier &lt;Thomas.Houtekier&#064;tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.</li>

<li>Don Hillsberry &lt;hillsber&#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>

<li>Kazuo Furuya &lt;kfuruya&#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.</li>

- <li>Jason Novotny &lt;jdnovotny&#064;lbl.gov&gt; - initial work on the openssl PEM processing.</li>
- <li>Joel Hockey &lt;joel.hockey&#064;qipayments.com&gt; - initial work on the openssl PEM processing.</li>
- <li>John Steenbruggen &lt;JohnS&#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
- <li>Justin Chapweske &lt;justin&#064;chapweske.com&gt; - ordering patch for Tiger message digest.</li>
- <li>John Serock &lt;jserock&#064;hotmail.com&gt; - 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>
- <li>Sascha Weinreuter &lt;Sascha.Weinreuter&#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
- <li>Andre Wehnert &lt;aw5&#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
- <li>Luigi Lo Iacono &lt;lo\_iacono&#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
- <li>Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>
- <li>Marcus Povey &lt;mpovey&#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
- <li>Sebastian Clau&szlig; &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
- <li>Nicolas Bielza &lt;nicolas.bielza&#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
- <li>Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.</li>
- <li>Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>
- <li>Jarek Gawor &lt;gawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
- <li>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
- <li>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
- <li>J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
- <li>Matteo Artuso &lt;matartuso&#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
- <li>Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
- <li>Elmar Sonnenschein &lt;eso&#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
- <li>J&ouml;rn Schwarze &lt;JSchwarze&#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
- <li>Bryan Lovquist &lt;bkl&#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
- <li>Artem Portnoy &lt;Artem\_Portnoy&#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
- <li>Michael H&auml;usler &lt;haeusler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
- <li>Johan Seland &lt;johans&#064;netfonds.no&gt; - general toString for BigInteger class.</li>
- <li>Johannes Nicolai &lt;johannes.nicolai&#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
- <li>Marc Doberva &lt;marc.doberva&#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
- <li>Jan Dvorak &lt;jan.dvorak&#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
- <li>Joe Cohen &lt;jcohen&#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in



DERInputStream into what it should have been.</li>

<li>Chris Long <a href="mailto:along@ece.cmu.edu">along@ece.cmu.edu</a>; - adding public key decoding to PEMReader.</li>

<li>Hes Siemelink <a href="mailto:hes@izecom.com">hes@izecom.com</a>; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>

<li>Stefan Puiu <a href="mailto:stefanpuiu@yahoo.com">stefanpuiu@yahoo.com</a>; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>

<li>Kaiser Yang <a href="mailto:kaiseryang@yahoo.com">kaiseryang@yahoo.com</a>; - Finding BigInteger loop problem in prime generation.</li>

<li>Jiri Urbanec <a href="mailto:jiri.urbanec@logicacmg.com">jiri.urbanec@logicacmg.com</a>; - patch to fix defect in DERBMPString.equals().</li>

<li>Justin Kolb <a href="mailto:jkolb@pristx.com">jkolb@pristx.com</a>; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>

<li>Ralf Hauser <a href="mailto:ralfhauser@gmx.ch">ralfhauser@gmx.ch</a>; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>

<li>Michal Dvorak <a href="mailto:M\_Dvorak@kb.cz">M\_Dvorak@kb.cz</a>; - getNextUpdate patch for OCSP SingleResp.</li>

<li>Klaus Greve Fiorentini <a href="mailto:Klaus@cpqd.com.br">Klaus@cpqd.com.br</a>; - array fix in PGP PublicKeyEncSessionPacket.</li>

<li>Olivier Refalo <a href="mailto:Olivier\_Refalo@fpl.com">Olivier\_Refalo@fpl.com</a>; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>

<li>Mariusz Bandola <a href="mailto:mariusz.bandola@cryptotech.com.pl">mariusz.bandola@cryptotech.com.pl</a>; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaying with general objects in sequences.</li>

<li>Brien Oberstein <a href="mailto:brien.oberstein@transacttools.net">brien.oberstein@transacttools.net</a>; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>

<li>Ian Haywood <a href="mailto:ian@haywood.bpa.nu">ian@haywood.bpa.nu</a>; - addition of getSignatureType to PGPSignature.</li>

<li>Jonathan Edwards <a href="mailto:s34gull@mac.com">s34gull@mac.com</a>; - initial support for reading multiple rings from a PGP key file.</li>

<li>Andrew Thornton <a href="mailto:andrew@caret.cam.ac.uk">andrew@caret.cam.ac.uk</a>; - patch for RSA PUBLIC KEY in PEMReader.</li>

<li>Gregor Leander <a href="mailto:gl@bos-bremen.de">gl@bos-bremen.de</a>; - initial parsing of multiple sequence entries in an X.509 Name.</li>

<li>Antoon Bosselaers <a href="mailto:Antoon.Bosselaers@esat.kuleuven.ac.be">Antoon.Bosselaers@esat.kuleuven.ac.be</a>; - help with RipeMD320 implementation.</li>

<li>Peter Sylvester <a href="mailto:Peter.Sylvester@edelweb.fr">Peter.Sylvester@edelweb.fr</a>; - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug <a href="mailto:ummmmm@myrealbox.com">ummmmm@myrealbox.com</a>; - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes <a href="mailto:fstaes@netconsult.be">fstaes@netconsult.be</a>; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>

<li>W.R. Dittmer <a href="mailto:wdittmer@cs.vu.nl">wdittmer@cs.vu.nl</a>; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto <a href="mailto:laperez@banxico.org.mx">laperez@banxico.org.mx</a>; - patch to use of BitString in X.509 name.</li>

<li>James Wright <a href="mailto:James\_Wright@harte-hanks.com">James\_Wright@harte-hanks.com</a>; - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford <a href="mailto:jim@muirford.com">jim@muirford.com</a>; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

<li>Michael Hausler <a href="mailto:haeusler@ponton-consulting.de">haeusler@ponton-consulting.de</a>; - extra aliases for provider.</li>

<li>Sai Pullabhotla <a href="mailto:psai@linoma.com">psai@linoma.com</a>; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

- <li>Joseph Miller &lt;joseph&#064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
- <li>Lars &lt;xyz&#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
- <li>Jeroen van Vianen &lt;jeroen&#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
- <li>Jun Sun &lt;JSun&#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
- <li>Petr Dukem &lt;pdukem&#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
- <li>Filipe Silva &lt;filipe.silva&#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
- <li>Alpesh Parmar &lt;alps&#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
- <li>Jay Gengelbach &lt;jengelbach&#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
- <li>Doug &lt;doug&#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
- <li>Matthew Mundy &lt;mmundy1&#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
- <li>Tom Cargill &lt;cargill&#064profcon.com&gt; - spelling patch in provider.</li>
- <li>Breitenstrom Christian &lt;C.Breitenstrom&#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
- <li>Zanotti Mirko &lt;zanotti&#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
- <li>Nicola Scandoni &lt;nscandoni&#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
- <li>Ville Skytt&#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
- <li>Bruce Gordon &lt;bruce.gordon&#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
- <li>Miles Whiteley &lt;Miles.Whiteley&#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
- <li>Albert Moliner &lt;amoliner&#064evintia.com&gt; - initial TSP implementation.</li>
- <li>Carlos Lozano &lt;carlos&#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
- <li>Javier Delgadillo &lt;javi&#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
- <li>Joni Hahkala &lt;joni.hahkala&#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egree.org">EGEE project</a> for making the work available.</li>
- <li>Rolf Schillinger&lt;rolf&#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
- <li>Sergey Bahtin &lt;Sergey\_Bahtin&#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
- <li>Franck Leroy &lt;Franck.Leroy&#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
- <li>Atsuhiko Yamanaka &lt;ymnk&#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
- <li>Nickolay Bolshackov &lt;tyrex&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
- <li>Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
- <li>Steve Mitchell &lt;mitchell&#064intertrust.com&gt; - 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>

<li>Dirk Eisner &lt;D.Eisner&#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>

<li>Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - initial implementation of attribute classes from RFC 3126.

Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>

<li>Matteo &lt;matartuso&#064libero.it&gt; - sequence patch to ASN1Dump.</li>

<li>Andrew Paterson &lt;andrew.paterson&#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>

<li>Vladimir Molotkov &lt;vladimir.n.molotkov&#064intel.com&gt; - extensive provider exception handling compliance testing.</li>

<li>Florin Kollan &lt;adlocflo&#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>

<li>Pavel Vassiliev &lt;paulvas&#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>

<li>Tom Pesman &lt;tom&#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>

<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk&#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>

<li>Arndt Hasch &lt;Arndt.Hasch&#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>

<li>Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>

<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>

<li>Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

<li>tu-vi cung &lt;t2cung&#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>

<li>Chris Schultz &lt;cschultz&#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>

<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>

<li>Joel Rees &lt;rees&#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>

<li>Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>

<li>Larry Bugbee &lt;bugbee&#064mac.com&gt; - initial ECNR implementation.</li>

<li>Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>

<li>Brian O'Rourke &lt;brianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>

<li>Andreas Schwier &lt;andreas.schwier&#064cardcontact.de&gt; - 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.</li>

<li>David Josse &lt;david.josse&#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>

<li>Kishimoto Kazuhiko &lt;kazu-k&#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>

<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in

JDKKeyFactory.</li>  
<li>Carlos Valiente <a href="mailto:superdupont@gmail.com">superdupont@gmail.com</a>; - 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, <a href="mailto:olaf.keller.bc@bluewin.ch">olaf.keller.bc@bluewin.ch</a>; - 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>J&ouml;rg Eichhorn <a href="mailto:eichhorn@ponton-consulting.de">eichhorn@ponton-consulting.de</a>; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>  
<li>Karsten Ohme <a href="mailto:widerstand@t-online.de">widerstand@t-online.de</a>; - 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. Fix for RFC 5280 NameConstraint checking for RDNs.</li>  
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 <a href="mailto:carlos@tradise.com">carlos@tradise.com</a>; - patch for <code>ctrl</code> and <code>m</code> only handling in CRLFOutputStream.</li>  
<li>John Alfred Prufrock <a href="mailto:j.a.prufrock@gmail.com">j.a.prufrock@gmail.com</a>; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>  
<li>Stefan Neusatz Guilhen <a href="mailto:sneusatz@gmail.com">sneusatz@gmail.com</a>; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>  
<li>Marzio Lo Giudice <a href="mailto:marzio.logiudice@gmail.com">marzio.logiudice@gmail.com</a>; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>  
<li>Georg Lippold <a href="mailto:georg.lippold@gmx.de">georg.lippold@gmx.de</a>; - initial implementation of NaccacheStern cipher.</li>  
<li>Chris Viles <a href="mailto:chris\_viles@yahoo.com">chris\_viles@yahoo.com</a>; - fix to SignatureSubpacket critical bit setting.</li>  
<li>Pasi Eronen <a href="mailto:Pasi.Eronen@nokia.com">Pasi.Eronen@nokia.com</a>; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>  
<li>Lijun Liao <a href="https://github.com/xipki">https://github.com/xipki</a>; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li>  
<li>Maria Ivanova <a href="mailto:maria.ivanova@gmail.com">maria.ivanova@gmail.com</a>; - support for tags > 30 in ASN.1 parsing.</li>  
<li>Armin H&auml;berling <a href="mailto:arminha@student.ethz.ch">arminha@student.ethz.ch</a>; - first cut of internationalisation, initial PKIX validation classes.</li>  
<li>Marius Schilder <a href="mailto:mschilder@google.com">mschilder@google.com</a>; - main set of test vectors for Bleichenbacher's forgery attack.</li>  
<li>Xavier Le Vourch <a href="mailto:xavier@brittanysoftware.com">xavier@brittanysoftware.com</a>; - general code clean ups.</li>  
<li>Erik Tews <a href="mailto:e\_tews@cdc.informatik.tu-darmstadt.de">e\_tews@cdc.informatik.tu-darmstadt.de</a>; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>  
<li>Thomas Dixon <a href="mailto:reikomusha@gmail.com">reikomusha@gmail.com</a>; - initial implementations of TEA/XTEA, Salsa20, ISAAC,

and Noekeon. XTEA enhancements.</li>  
<li>Frank Cornelis &lt;info@#064frankcornelis.be&gt;;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>  
<li>Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt;; - initial implementation of RSA blinding for signatures.</li>  
<li>David Stacey &lt;DStacey@#064allantgroup.com&gt;; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>  
<li>Martijn Brinkers &lt;list@#064mitm.nl&gt;; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>  
<li>Julius Davies &lt;juliusdavies@#064gmail.com&gt;; - additional modes and algorithm support in PEMReader</li>  
<li>Matthias &lt;g@#064rtner.de&gt;; - GnuPG compatibility changes for PBEFileProcessor.</li>  
<li>Olga K&uuml;thler &lt;olga.kaethler@#064hjp-consulting.com&gt;; - 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 &lt;germano.rizzo@#064gmail.com&gt;; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>  
<li>N&uacute;ria Mar&iacute; &lt;numaa@#064hotmail.com&gt;; - patch for alternate data type recognition in CMSSignedDataParser.</li>  
<li>Janis Schuller &lt;js@#064tzi.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, updates to KeyPurposeId.</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@#064nbr.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@#064mtg.de&gt;; - fix for named curve recognition in ECGOST key generation.</li>  
<li>Jakub Gwozdz &lt;gwozdziu@#064rpg.pl&gt;; - addition of getTsa() to TimeStampTokenInfo.</li>  
<li>Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt;; - initial implementation of VMPC cipher, VMPCRandomGenerator, 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@#064gmail.com&gt;; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>  
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt;; - security manager patch for PKCS1Encoding property check.</li>  
<li>J Ross Nicoll &lt;jrn@#064jrn.me.uk&gt;; - improved exception handling for getInstance() in ASN.1 library.</li>  
<li>Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt;; - patch to construtor for CRMF CertSequence.</li>  
<li>Gabriele Contini &lt;gcontini@#064hotpop.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@#064signaturen.at&gt;; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>

<li>Michael LeMay &lt;lemaymd&#064lemaymd.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&#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>  
<li>Ion Larra&ntilde;aga &lt;ilarra&#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>  
<li>Bob Kerns &lt;bob.kerns&#064positscience.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&#064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson &lt;tobbe79&#064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick &lt;bouncycastle\_pfitz&#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>  
<li>Henrik Andersson &lt;k.henrik.andersson&#064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>  
<li>Cagdas Cirit &lt;cagdasirit&#064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>  
<li>Harakiri &lt;harakiri\_23&#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>  
<li>Pedro Henriques &lt;pmahenriques&#064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.</li>  
<li>Lothar Kimminger &lt;job&#064kimminger.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>  
<li>Richard Farr &lt;rfarr.se&#064gmail.com&gt; initial SRP-6a implementation.</li>  
<li>Thomas Castiglione &lt;castiglione&#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>  
<li>Elisabetta Romani &lt;eromani&#064sogei.it&gt; patch for recognising multiple counter signatures.</li>  
<li>Robin Lundgren &lt;r737lundgren&#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>  
<li>Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>  
<li>Andreas Antener &lt;antener\_a&#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>  
<li>Harendra Rawat &lt;hsrawat&#064yahoo.com&gt; fix for BERConstructedOctetString.</li>  
<li>Rolf Lindemann &lt;lindemann&#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>  
<li>Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>  
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>  
<li>Chris Cole &lt;chris\_h\_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>  
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>  
<li>Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>

- <li>Markus Kil &lt;markus@primekey.se>; several enhancements to TimeStampResponseGenerator.</li>
- <li>Dario Novakovic &lt;darionis@yahoo.com>; fix for NPE when checking revocation reason on CRL without extensions.</li>
- <li>Michael Smith &lt;msmith@cbnco.com>; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
- <li>Andrea Zilio &lt;andrea.zilio@gmail.com>; fix for PEM password encryption of private keys.</li>
- <li>Alex Birkett &lt;alex@birkett.co.uk>; added support for EC cipher suites in TLS client (RFC 4492) [BJA-291].</li>
- <li>Wayne Grant &lt;waynedgrant@gmail.com>; additional OIDs for PKCS10 and certificate generation support.</li>
- <li>Frank Cornelis &lt;info@frankcornelis.be>; additional support classes for CAdES, enhancements to OCSP classes.</li>
- <li>Jan Dittberner &lt;jan@dittberner.info>; addHeader patch for SMIME generator.</li>
- <li>Bob McGowan &lt;boab.mcgoo@btinternet.com>; patch to support different object and mgf digests in PSS signing.</li>
- <li>Ivo Matheis &lt;i.matheis@seeburger.de>; fix to padding verification in ISO-9796-1.</li>
- <li>Marco Sandrini &lt;nessche@gmail.com>; patch to add IV to ISO9797Alg3Mac.</li>
- <li>Alf Malf &lt;alfilmalf@hotmail.com>; removal of unnecessary limit in CMSContentInfoParser.</li>
- <li>Alfonso Massa &lt;alfonso.massa@insiel.it>; contributions to CMS time stamp classes.</li>
- <li>Giacomo Boccardo &lt;gboccardo@unimaticaspa.it>; initial work on CMSTimeStampedDataParser.</li>
- <li>Arnis Tartu &lt;arnis@ut.ee>; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
- <li>Janusz Sikociski &lt;J.Sikocinski@gdzie.pl>; addition of Features subpacket support to OpenPGP API.</li>
- <li>Juri Hudolejev &lt;jhudolejev@gmail.com>; JavaDoc fix to CMSSignedDataParser.</li>
- <li>Liane Velten &lt;liane.velten@hjp-consulting.com>; fine tuning of code for DHParameters validation.</li>
- <li>Shawn Willden &lt;swillden@google.com>; additional functionality to PGPKKeyRing.</li>
- <li>Atanas Krachev &lt;akrachev@gmail.com>; added support for revocation signatures in OpenPGP.</li>
- <li>Mickael Laiking &lt;mickael.laiking@keynectis.com>; initial cut of EAC classes.</li>
- <li>Tim Buktu &lt;tbuktu@hotmail.com>; Initial implementation of NTRU signing and encryption.</li>
- <li>Bernd &lt;rbernd@gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.</li>
- <li>Steing Inge Morisbak &lt;stein.inge.morisbak@BEKK.no>; Test code for lower case Hex data in PEM headers.</li>
- <li>Andreas Schmid &lt;andreas.schmid@tngtech.com>; Additional expiry time check in PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
- <li>Ignat Korchagin &lt;ignat.korchagin@gmail.com>; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
- <li>Petar Petrov &lt;p.petrov@bers-soft.com>; Testing and debugging of UTF-8 OpenPGP passwords.</li>
- <li>Daniel Fitzpatrick &lt;daniel.f.nwr@gmail.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 &lt;Andy.Neilson@quest.com>; a further patches to deal with multiple providers and PEMReader.</li>

<li>Ted Shaw <a href="mailto:xiao.xj@gmail.com">xiao.xj@gmail.com</a>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>

<li>Eleriseth <a href="mailto:Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lv2EUVW99v3yNV3IWROG8.fms">Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lv2EUVW99v3yNV3IWROG8.fms</a>; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>

<li>Kenny Root <a href="mailto:kenny@the-b.org">kenny@the-b.org</a>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>

<li>Maarten Bodewes <a href="mailto:maarten.bodewes@gmail.com">maarten.bodewes@gmail.com</a>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>

<li>Philip Clay <a href="mailto:pilf\_b@yahoo.com">pilf\_b@yahoo.com</a>; Initial implementation of J-PAKE.</li>

<li>Brian Carlstrom <a href="mailto:bdc@carlstrom.com">bdc@carlstrom.com</a>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>

<li>Samuel Lid&eacute;n Borell <a href="mailto:samuel@primekey.se">samuel@primekey.se</a>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>

<li>Sergio Demian Lerner <a href="mailto:sergiolerner@certimix.com">sergiolerner@certimix.com</a>; pointing out isInfinity issue in ECDSASigner signature verification.</li>

<li>Tim Whittington <a href="mailto:Tim.Whittington@orionhealth.com">Tim.Whittington@orionhealth.com</a>; 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 <a href="mailto:marcus.lundblad@primekey.se">marcus.lundblad@primekey.se</a>; 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 <a href="mailto:zhozhin@xrm.ru">zhozhin@xrm.ru</a>; patch for override of TSP SignerInfo attributes.</li>

<li>Sergey Tiunov <a href="mailto:t5555d@gmail.com">t5555d@gmail.com</a>; initial cut of DVCS classes.</li>

<li>Damian Kolasa <a href="mailto:fatfredyy@gmail.com">fatfredyy@gmail.com</a>; ASN1Sequence patch for class cast issue in X9Curve.</li>

<li>Ash Hughes <a href="mailto:ashley.hughes@blueyonder.co.uk">ashley.hughes@blueyonder.co.uk</a>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>

<li>Daniel Hirscher <a href="mailto:dev@daniel-hirscher.de">dev@daniel-hirscher.de</a>; patch to support parsing of explicit EC parameters in PEM files.</li>

<li>Daniele Ricci <a href="mailto:daniele.athome@gmail.com">daniele.athome@gmail.com</a>; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>

<li>Matti Aarnio <a href="mailto:matti.aarnio@methics.fi">matti.aarnio@methics.fi</a>; 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, addition of NONEwithRSA to lightweight RSADigestSigner.</li>

<li>Babak Najafi <a href="mailto:bnajafi@akamai.com">bnajafi@akamai.com</a>; fixes to OpenPGP NotationData to prevent truncation problems.</li>

<li>Eric Mueller <a href="mailto:eric.mueller@sage.de">eric.mueller@sage.de</a>; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>

<li>Mathias Herberts <a href="mailto:Mathias.Herberts@gmail.com">Mathias.Herberts@gmail.com</a>; fix to inOff usage in RFC3394WrapEngine.</li>

<li>Daniil Ivanov <a href="mailto:daniil.ivanov@gmail.com">daniil.ivanov@gmail.com</a>; addition of provider support for GOST HMAC SecretKeyFactory.</li>



- <li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
- <li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
- <li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
- <li>AxelVDB &lt;axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.</li>
- <li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>
- <li>Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
- <li>Sid Steward &lt;sid.steward&#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
- <li>Alex Klyubin &lt;klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
- <li>Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
- <li>Andreas Reiter &lt;andreas.reiter&#064iaik.tugraz.at&gt; 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;aarts&#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>Marco Schulze&lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
- <li>Martin Schaefer&lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
- <li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
- <li>Tobias Wich&lt;tobias.wich&#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</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>Jens Kapitzka&lt;j.kapitzka&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
- <li>Johan Eklund&lt;johan&#064primekey.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&#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
- <li>Derek Atkins &lt;derek&#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
- <li>Peter Jr Halicky &lt;peto&#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
- <li>lartiguePierre&lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
- <li>Thomas Belot&lt;thomas.belot+BC&#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>

- <li>Rich DiCrocce<lt;https://github.com/rdicroce>> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
- <li>Björn Kautler<lt;https://github.com/Vampire>> Refinements to cert path validation (authority key addition, certificate order preservation).</li>
- <li>Dominik Schürmann<lt;https://github.com/dschuermann>> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPPrivateKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
- <li>Michael <lt;MSKnet&#064web.de>> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
- <li>Tobias Wagner <lt;tobias.wagner&#064n-design.de>> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
- <li>Sergio Giro <lt;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.</li>
- <li>bschuette<lt;https://github.com/bschuette>> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
- <li>Leonard Dallot<lt;https://github.com/dallotTazTag>> Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
- <li>Jan Willem Janssen <lt;j.w.janssen+bouncycastle&#064lxtreme.nl>> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
- <li>Sebastian Oerding <lt;sebastian.oerding@robotron.de>> Fixes to toString() in x509.CertificatePolicies.</li>
- <li>Kai Kramer <lt;kai.kramer&#064gmail.com>> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
- <li>Benoit Charles <lt;benoit.charles&#064opentrust.com>> Fix for IES data length check on decryption.</li>
- <li>Niko <lt;nfink95&#064gmail.com>> fix to cast issue in getOutputSize() for ECIES.</li>
- <li>akwizgran<lt;https://github.com/akwizgran>> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
- <li>Matthias Edelhoff <lt;Matthias.Edelhoff&#064cryptovision.com>> BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
- <li>Lukasz Deputat <lt;lukasz.deputat&#064gmail.com>> Fixed bugs in TlsUtils read methods [#BJA-592].</li>
- <li>Justin Ludwig <lt;https://github.com/justinludwig>> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
- <li>Andr e Berenguel <lt;https://github.com/aberenguel>> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
- <li>Slawomir Jaranowski<lt;https://github.com/slawekjaranowski>> Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
- <li>Andrey Vasilyev<lt;https://github.com/andrey-vasilyev>> Initial implementation of GOST R 34.11-2012.</li>
- <li>William Glanton <lt;wglanton77&#064gmail.com>> Fixed bug in Poly1305 [#BJA-620].</li>
- <li>jdvorak001<lt;https://github.com/jdvorak001>> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
- <li>Joseph Naegele <lt;jnaegele&#064grierforensics.com>> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
- <li>Andrew Bonventre<lt;https://github.com/andybons>> NullPointer patch for WNafUtil.</li>
- <li>The Google Security Team (Project Wycheproof) <lt;https://github.com/google/wycheproof>> defect analysis and additional test cases for the provider.</li>
- <li>Gorka Irazoqui <lt;girazoki&#064wpi.edu>> from Intel Security Center of Excellence <lt;https://security-center.intel.com/>> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>

- <li>Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com>; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
- <li>Alexandr Krivoshta &lt;wipe@ya.ru>; N4 calculation fix to GOFB mode.</li>
- <li>Artem Storozhuk &lt;storojs72@gmail.com>; N4 calculation fix to GOFB mode.</li>
- <li>Na Yu &lt;na.yu@samsung.com>; Constructor patches to CMC PKIData.</li>
- <li>Evangelos Karatsiolis &lt;ekaratsiolis@mtg.de>; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
- <li>VivleSoren &lt;https://github.com/VivleSoren>; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
- <li>mtausig &lt;https://github.com/mtausig>; JavaDoc fix for MCSEncryptedDataGenerator.</li>
- <li>Anders Schack-Mulligen &lt;https://github.com/aschackmull>; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>
- <li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de>; Initial XMSS/XMSS-MT implementation.</li>
- <li>didisoft &lt;https://github.com/didisoft>; test code for PGP signature removal involving user ids.</li>
- <li>Mike Safonov&lt;https://github.com/MikeSafonov>; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
- <li>Artem Storozhuk &lt;storojs72@gmail.com>; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
- <li>Andreas Glaser &lt;andreas.glaser@gi-de.com>; patch to recognise ANSSI curves for PKCS#10 requests.</li>
- <li>codeborne &lt;https://github.com/cbpx>; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
- <li>FauxFaux &lt;https://github.com/FauxFaux>; patch for JDK 1.9 update to DRBG.java.</li>
- <li>4garbage &lt;https://github.com/4garbage>; patch to allow GOST3410-94 private keys encoded as integers.</li>
- <li>ekszz &lt;https://github.com/ekszz>; corrections to SM2 signer to include default identity value.</li>
- <li>jminer &lt;https://github.com/jminer>; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>
- <li>str4d &lt;https://github.com/str4d>; initial implementation of Blake2s</li>
- <li>Scott Woodward &lt;scott@bit3consulting.com>; performance fixes for CTRSP800DRBG.</li>
- <li>David Strawn &lt;https://github.com/isomarcte>; fix for off by one error in SCRYPT bounds checking.</li>
- <li>chris mccown &lt;0xchrismccown@gmail.com>; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
- <li>ZZMarquis &lt;https://github.com/ZZMarquis>; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
- <li>Andreas Kretschmer &lt;https://github.com/Akretsch>; NPE fix for CertTemplate.getVersion()</li>
- <li>Armin Lunkeit, Michael Tautenhahn &lt;>; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
- <li>Vincent Breitmoser &lt;https://github.com/Valodim>; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
- <li>Adam Vartanian &lt;https://github.com/flooey>; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
- <li>Bernd &lt;https://github.com/ecki>; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
- <li>Shartung &lt;https://github.com/shartung>; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
- <li>Paul Schaub &lt;https://github.com/vanitasvitae>; bringing PGPSecretKey.getUserIds() into line with

PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>

<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>

<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>

<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>

<li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>

<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>

<li>Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>

<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>

<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>

<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>

<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>

<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>

<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>

<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>

<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>

<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>

<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>

<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>

<li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer@#064truesec.se&gt; Additional improvements to constant time comparisons.</li>

<li>Ren&eacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>

<li>THausherr&lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>

<li>Gaylor Bosson&lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>

<li>gaellalire&lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>

<li>im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.</li>

<li>Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>

<li>dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>

<li>Daniel Heldt&lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>

<li>Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>

<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>

<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>

<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>

<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>

<li>Tobias Ospelt &gt;tobias@#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.</li>

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## 1.3 jcommander 1.48

## 1.4 yanger 1

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## 1.14 strict-uri-encode 1.1.0

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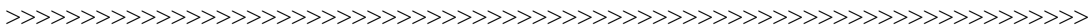
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## 1.21 jackson-annotations 2.9.0

## 1.22 hk2-utils 2.4.0

## 1.23 otp R20.3.8

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## 1.24 jackson-databind 2.9.5

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```

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

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# 1.25 bean-validation-api 1.1.0

# 1.26 react-lifecycles-compat 3.0.4

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## 1.27 libsmi 0.4.8

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-----

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.

Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both  
traditional one-character options, and GNU'ish  
--long-options.

Keywords: programming, library, lib, commandline, options

Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)

Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu/pub/Linux/libs  
shhopt-1.1.2.tar.gz](http://sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz)

Platforms: Requires ANSI C-compiler.

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## 1.28 hikaricp 2.3.13

## 1.29 jersey-guava 2.12

## 1.30 isomorphic-fetch 2.2.1

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## 1.31 jersey-server 2.22

# 1.32 apache-xml-rpc-server-library 3.1.2

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Version: 1.1.2

Entered-date: 23MAR97

Description: C-functions for parsing command line options, both traditional one-character options, and GNU'ish --long-options.

Keywords: programming, library, lib, commandline, options

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Primary-site: <http://www.ifi.uio.no/~sverrehu/pub-unix/>

Alternate-site: [sunsite.unc.edu/pub/Linux/libs  
shhopt-1.1.2.tar.gz](http://sunsite.unc.edu/pub/Linux/libs/shhopt-1.1.2.tar.gz)

Platforms: Requires ANSI C-compiler.

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## 1.34 redux-logger 3.0.6

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## 1.36 jackson-dataformat-yaml 2.9.8

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## 1.44 apache-xml-rpc-common-library 3.1.2

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## 1.47 snake-yaml 1.18

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## 1.49 bouncy-castle 1.60

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## 1.50 getopt-long 1.17

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## 1.52 junit 4.11

## 1.53 jersey-media-sse 2.22

## 1.54 jersey-client 2.22

## 1.55 slf4j-log4j 1.7.5

## 1.56 jetty-servlets 9.2.1.v20140609

## 1.57 is-object 3.0.1

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## 1.58 xmlrpc-common 3.1.3

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## 1.60 javax-annotation-api 1.2

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# 1.62 apache-httpclient 4.5.6

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## 1.63 c3p0 0.9.5.2

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## 1.64 txw2 2.2.11

## 1.65 query-string 4.3.4

### 1.65.1 Available under license :

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## 1.66 miglayout 3.5.5

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## 1.67 mysql-jdbc 8.0.12

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\*/

```
package com.mysql.cj.protocol.x;
```

```
import java.util.List;
```

```
import com.mysql.cj.protocol.Warning;
```

```
import com.mysql.cj.x.protobuf.MysqlxDatatypes.Scalar;
```

```
public class Notice implements Warning {
```

```
    public static final int XProtocolNoticeFrameType_WARNING = 1;
```

```
    public static final int XProtocolNoticeFrameType_SESS_VAR_CHANGED = 2;
```

```
    public static final int XProtocolNoticeFrameType_SESS_STATE_CHANGED = 3;
```

```
    public static final int SessionStateChanged_CURRENT_SCHEMA = 1;
```

```
    public static final int SessionStateChanged_ACCOUNT_EXPIRED = 2;
```

```
    public static final int SessionStateChanged_GENERATED_INSERT_ID = 3;
```

```
    public static final int SessionStateChanged_ROWS_AFFECTED = 4;
```

```
    public static final int SessionStateChanged_ROWS_FOUND = 5;
```

```
    public static final int SessionStateChanged_ROWS_MATCHED = 6;
```

```
    public static final int SessionStateChanged_TRX_COMMITTED = 7;
```

```
    public static final int SessionStateChanged_TRX_ROLLEDBACK = 9;
```

```
    public static final int SessionStateChanged_PRODUCED_MESSAGE = 10;
```

```
    public static final int SessionStateChanged_CLIENT_ID_ASSIGNED = 11;
```

```
    public static final int SessionStateChanged_GENERATED_DOCUMENT_IDS = 12;
```

```
    private int noticeType = 0;
```

```

private int level;
private long code;
private String message;

private Integer paramType = null;
private String paramName = null;
private Scalar value = null;
private List<Scalar> valueList = null;

/**
 * Constructor for XProtocolNoticeFrameType_WARNING
 *
 * @param level
 *       level
 * @param code
 *       code
 * @param message
 *       message
 */
public Notice(int level, long code, String message) {
    this.noticeType = XProtocolNoticeFrameType_WARNING;
    this.level = level;
    this.code = code;
    this.message = message;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_STATE_CHANGED
 *
 * @param paramType
 *       parameter type
 * @param valueList
 *       values
 */
public Notice(int paramType, List<Scalar> valueList) {
    this.noticeType = XProtocolNoticeFrameType_SESS_STATE_CHANGED;
    this.paramType = paramType;
    this.valueList = valueList;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_VAR_CHANGED
 *
 * @param paramName
 *       parameter name
 * @param value
 *       value

```

```

*/
public Notice(String paramName, Scalar value) {
    this.noticeType = XProtocolNoticeFrameType_SESS_VAR_CHANGED;
    this.paramName = paramName;
    this.value = value;
}

public int getType() {
    return this.noticeType;
}

@Override
public int getLevel() {
    return this.level;
}

@Override
public long getCode() {
    return this.code;
}

@Override
public String getMessage() {
    return this.message;
}

public Integer getParamType() {
    return this.paramType;
}

public String getParamName() {
    return this.paramName;
}

public Scalar getValue() {
    if (this.value == null && this.valueList != null && !this.valueList.isEmpty()) {
        return this.valueList.get(0);
    }
    return this.value;
}

public List<Scalar> getValueList() {
    return this.valueList;
}
}

```

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Version 2.1, February 1999

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MySQL Connector/J 8.0

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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## 1.69 uaparserjs 0.7.20

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## 1.70 inline-style-prefixer 4.0.2

## 1.71 jaxb-core 2.2.11

## 1.72 scheduler 0.17.0

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## 1.73 jetty-util 9.2.1.v20140609

## 1.74 history 3.3.0

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## 1.75 iconv-lite 0.4.24

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## 1.76 c3p0 0.9.1.1

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## 1.78 hyphenate-style-name 1.0.3

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## 1.79 hk2-locator 2.3.0-b10

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compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrifty.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
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lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs

lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
lib/csharp/src/Transport/TStreamTransport.cs  
lib/csharp/src/Transport/TTransport.cs  
lib/csharp/src/Transport/TTransportException.cs  
lib/csharp/src/Transport/TTransportFactory.cs  
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs  
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
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## 1.87 create-react-class 15.6.3

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## 1.89 loose-envify 1.4.0

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[PCRE]

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The basic library functions are written in C and are freestanding. Also  
included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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Cambridge, England.

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[Misc C library code]

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[zlib]

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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

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

\*/

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[dialyzer]

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[hipe]

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[edoc, syntax\_tools]

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[eldap]

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## 1.95 jersey-common 2.12

## 1.96 jackson 2.9.5

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## 1.97 jersey-entity-filtering 2.22

## 1.98 tiger-types 1.4

## 1.99 jersey-guava 2.22

# 1.100 jersey-media-json-jackson 2.22

## 1.101 redux 4.0.4

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```
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   version 1.2.11, January 15th, 2017
```

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*/
```

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## 1.106 jersey-media-jaxb 2.22

## 1.107 jackson-core 2.9.5

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2000-05-05

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These are some of the many people who have helped Ant become so successful.

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## 1.112 hashtable 1.0



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It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

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# 1.124 react-router-redux 4.0.8

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[zlib]

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

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

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[dialyzer]

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[edoc, syntax\_tools]

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THE BASIC LIBRARY FUNCTIONS

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## 1.128 safer-buffer 2.1.2

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

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    description='ANT (compile time), needed for generation of test reports'>
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    description='Xalan-Java is an XSLT processor for transforming XML documents.
        Used to generate HTML test reports from XML (testing time)'>
    <jar name='xalan.jar' />
</module>
</thirdparty-licenses>

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## 1.138 jersey-container-servlet-core 2.22

## 1.139 babel-runtime 7.7.2

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## 1.141 hk2-api 2.3.0

## 1.142 hamcrest 1.3

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## 1.143 json-java 20131018

# 1.144 apache-webservices-common-utilities

## 1.0.2

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## 1.150 deep-diff 0.3.8

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## 1.151 javax-inject 2.4.0

# 1.152 xmlrpc-client 3.1.3

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## 1.157 pcre 8.41

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## 1.159 react-router 3.2.5

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## 1.162 jaxb-api 2.2.11

## 1.163 jetty 9.2.1.v20140609

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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## 1.164 bouncy-castle 1.60

## 1.165 jersey-common 2.22

## 1.166 thrift 0.10.0

## 1.167 jaxb-impl 2.3.0

## 1.168 whatwg-fetch 3.0.0

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## 1.172 resourcelocator 1.0.1

### 1.172.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

```
<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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## 1.173 jettison 1.3

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## 1.175 asap 2.0.6

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## 1.177 quartz 2.3.0

## 1.178 react-dom 16.11.0

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# 1.179 hk2-locator 2.4.0

## 1.180 streams 1.1.0

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## 1.185 apache-jakarta-commons-logging 1.1

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## 1.186 slf4j-api 1.7.7

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