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1.4 snake-yaml 1.17

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1.7 jackson-jaxrs-xml-provider 2.9.10

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1.8 cglib 2.2.0

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1.10 annotations 2.0.1

1.11 jettison 1.4.0

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1.12 websocket-api 9.3.27.v20190418

1.13 jacoco-report 0.8.3

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1.14 json-simple 1.1.1

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1.16 kafka-clients 0.8.2.2

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1.17 jacoco-core 0.8.3

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1.18 java-jwt 3.8.3

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1.19 hk2-utils 2.2.0

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1.25 metrics-jetty 3.1.0

1.26 opentracing-noop 0.31.0

1.27 junixsocket-common 2.0.4

1.28 jetty 9.3.27.v20190418

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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/RequestLogHandler.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/Iso88591HttpWriter.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/ResourceHandler.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/ServerConnector.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/StatisticsHandler.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/jmx/AbstractConnectorMBean.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/Request.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/RequestLog.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/session/package-info.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/AsyncDelayHandler.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/gzip/GzipFactory.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/DefaultHandler.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/HttpChannel.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/session/JDBCSessionIdManager.java
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- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/HttpWriter.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/session/AbstractSessionIdManager.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/HandlerList.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-jar/org/eclipse/jetty/server/handler/DebugHandler.java
- * /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-

jar/org/eclipse/jetty/server/ConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/session/HashedSession.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/DebugListener.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/Slf4jRequestLog.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ApplicationBuilderImpl.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/package-info.java
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jar/org/eclipse/jetty/server/jmx/ServerMBean.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/HttpConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/ScopedHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/InclusiveByteRange.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/AbstractConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/AbstractNCSARequestLog.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/AllowSymLinkAliasChecker.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/SocketCustomizationListener.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/LocalConnector.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/NetworkConnector.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/AsyncContextEvent.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ResourceContentFactory.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/AbstractNetworkConnector.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/session/MemSession.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/ShutdownHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/ThreadLimitHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/Handler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/HostHeaderCustomizer.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/SecureRequestCustomizer.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ProxyConnectionFactory.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ConnectorStatistics.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/session/AbstractSession.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-

jar/org/eclipse/jetty/server/Utf8HttpWriter.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ResponseWriter.java
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jar/org/eclipse/jetty/server/HttpConnection.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/HttpInput.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/session/jmx/package-info.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ResourceCache.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/RequestLogCollection.java
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jar/org/eclipse/jetty/server/ServerConnectionStatistics.java
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jar/org/eclipse/jetty/server/handler/gzip/package-info.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/HomeBaseWarning.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/session/JDBCSessionManager.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/NegotiatingServerConnection.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/session/AbstractSessionManager.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
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* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/gzip/GzipHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/SecuredRedirectHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/HandlerContainer.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/AbstractHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/InetAddressHandler.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/HandlerWrapper.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/ShutdownMonitor.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-
jar/org/eclipse/jetty/server/handler/jmx/ContextHandlerMBean.java
* /opt/ws_local/PERMITS_SQL/1048941318_1591371062.93/0/jetty-server-9-3-27-v20190418-sources-1-

1.29 jetty-http-spi 9.3.27.v20190418

1.30 websocket-servlet 9.3.27.v20190418

1.31 snappy-java 1.1.1.7

1.32 transport-netty4-client 7.0.0

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1.33 jnr-constants 0.9.0

1.34 metrics-jvm 3.1.0

1.35 json-java 20160810

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1.36 reindex-client 7.0.0

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1.37 security-provider 1.64

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1.42 slf4j-log4j 1.7.19

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1.48 parent-join-client 7.0.0

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1.49 asm 2.2.0

1.50 javax-json-api 1.0

1.51 jersey-server 2.5.1

1.52 okio 1.13.0

1.53 jersey-common 2.5.1

1.54 mongodb-driver-core 3.0.4

1.55 jersey-bean-validation 2.5.1

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The following people donated financially to help with the release of 1.61:

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The following people donated financially to help with the release of 1.60:

Jens Neuhalfen and perillamint.

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The following people donated financially to help with the release of 1.59:

Brian Reid.

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The following people and organisations donated financially to help with the release of 1.57:

Joop Kaashoek and Pexus LLC.

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<p>

We also wish to acknowledge financial and collaborative support from CISCO and additional financial support from PrimeKey towards developing the EST API for RFC 7030 support.

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The following people and organisations donated financially to help with the release of 1.56:

DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter

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The following people and organisations donated financially to help with the release of 1.55:

Digistamp, RAM NAG

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The following people and organisations donated financially to help with the release of 1.54:

Lobster GmbH

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The following people and organisations donated financially to help with the release of 1.53:

Sheba, Ishmal Bartley, and Li-Chang Johnny Lo

</p>

<p>

The following people and organisations donated financially to help with the release of 1.52:

lecker@buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

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The following people and organisations donated financially to help with the release of 1.51:

Gup & Boz @ Alki Seattle, Bytemine GmbH, Ted Pennings, Atanas Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

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Organisations

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Holders of Crypto Workshop Support Contracts. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!

Atlassian Software Systems donation of Confluence and JIRA licences.

Grier Forensics, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.

TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.

TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: http://www.flexiprovider.de/

Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key

negotiation (RFC 5764),

and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <http://voxeolabs.com>

<https://www.coreinfrastructure.org/> Core Infrastructure Initiative - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.

Additional CertPath testing and validation data from the CertPath testing tool developed by [cryptosource GmbH](https://www.cryptosource.de) and [media Transfer AG](https://www.mtg.de) both located in Darmstadt, Germany.

<https://www.microfocus.com/> Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

People

[Tito Pena & Fortunato.Pena@AdNovum.CH](#) - initial RC5 implementation

[Michael Lee & yfl@mira.net](#) - initial RC6 implementation, MD2 implementation

[Nuno Santos & nsantos@student.dei.uc.pt](#) - finding toString bug in certificate object.

[Brett Sealey & brets@mortbay.com](#) - fixing the missing return problem in JDKKeyFactory (affected SSLLeay private keys).

[Victor A. Salaman & salaman@teknos.com](#) - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.

[Eran Librach & eranl@valicert.com](#) - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

[Jonathan Knudsen & jonathan@LearningPatterns.com](#) - porting information and restrictions when using the lightweight library with the MIDP environment.

[Markus Niedermann & markus.niedermann@softwired-inc.com](#) - porting information and restrictions when using the lightweight library with the MIDP environment.

[Mike Benham & moxie@thoughtcrime.org](#) - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

[Soren Hilmer & hilmer@mail.tele.dk](#) - initial implementation of netscape certificate request classes.

[Uwe Guenther & uwe@csc.de](#) - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

[Markus Bradtke & mab@informatik.uni-kiel.de](#) - fixing of a logic error in the JDKKeyStore class.

[Waclaw Sierek & waclaw.sierek@tpg.pl](#) - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

[Ly-Na Phu & lyna.phu@init-consulting.de](#) - assistance in the addition of ISO 9796-1 padding.

Stefan Köpsell <sk13@mail.inf.tu-dresden.de> - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/

Carmen Bastiaans <cbastiaa@microbits.com.au> - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson <tomasg@primekey.se> - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugen Kuleshov <euxx@hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods <meganwoods@sekurafire.com> - initial implementation of ECIES.

Christian Geuer-Pollmann <geuERP@apache.org> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

Michael Mühle <michael@mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

Michael Mansell <me@michaelmansell.com> - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker <eike.recker@gmx.de> - fixing misspelling of provider reference for RSA/1 and RSA/2.

Chris Southern <CSouthern@baltimore.com> - fixing misuse of specified provider in the PKCS10 certification request class.

Sidney Markowitz <sidney@sidney.com> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

Chris Kerr <ckerr@filonet.ca> - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

Mike Bean <mbean@lucentradius.com> - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek <e9526225@student.tuwien.ac.at> - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms <jgarms@yahoo.com> - fixing 112/168 key size bug for DESede key generation.

Mike Bremford <mike@big.faceless.org> - contributing the initial PKCS7 implementation.

Shankar Srinivasan <ssr002@yahoo.com> - S/Mime interoperability testing and debugging.

Stef Hoeben <ilsestef@skynet.be> - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk <kciosk@max.com.pl> - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier <Thomas.Houtekier@tectrade.net> - S/Mime testing and debugging. Interoperability with Biztalk.

- Don Hillsberry <hillsber@dialcorp.com> - S/Mime testing and debugging.
- Kazuo Furuya <kfuruya@infoteria.co.jp> - fixing root certificate chaining bug in PKCS12 key store.
- Jason Novotny <jdnovotny@lbl.gov> - initial work on the openssl PEM processing.
- Joel Hockey <joel.hockey@qspayments.com> - initial work on the openssl PEM processing.
- John Steenbruggen <JohnS@geotrust.com> - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.
- Justin Chapweske <justin@chapweske.com> - ordering patch for Tiger message digest.
- John Serock <jserock@hotmail.com> - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.
- Sascha Weinreuter <Sascha.Weinreuter@cit.de> - fixed SMIME saveChanges() bug.
- Andre Wehnert <aw5@mail.inf.tu-dresden.de> - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.
- Luigi Lo Iacono <lo_iacono@nue.et-inf.uni-siegen.de> - adding SIC mode to the blockciphers in the provider.
- Tim Sakach <tsakach@certivo.net> - SMIME v2 compatibility patches.
- Marcus Povey <mpovey@brookes.ac.uk> - adding the PGP mode to the lightweight API and the provider.
- Sebastian Clauß <sc2@inf.tu-dresden.de> - adding randomness setting to the certificate and CRL generators.
- Nicolas Bielza <nicolas.bielza@alligacom.com> - 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.
- Casey Marshall <rsdio@metastatic.org> - fixing the clone problem with Macs in the clean room JCE.
- Rick Zeldes <rick.zeldes@eds.com> - initial code for CMS/SMIME CompressedData.
- Jarek Gawor <gawor@mcs.anl.gov> - fixing ASN.1 sequence unpacking in BasicConstraints constructor.
- Brett Neumeier <random@rnd.cx> - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.
- Graham Coles <graham.coles@retail-logic.com> - patch to isParityAdjusted in DESKeySpec.
- Jörn von Kattchée <J.Kattchee@seeburger.de> - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.
- Matteo Artuso <matartuso@libero.it> - picking up the possible overread in ASN1InputStream.
- Julian Morrison <julian@extropy.demon.co.uk> - spotting the slow down in Diffie-Hellman key generation.
- Elmar Sonnenschein <eso@esomail.de> - fix to long conversion in clean room SecureRandom.
- Jörn Schwarze <JSchwarze@ulc.de> - Locale fix for the clean room JCE.
- Bryan Lovquist <bkl@cps.com.au> - Other provider compatibility fixes for CMS signing.
- Artem Portnoy <Artem_Portnoy@ibi.com> - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.
- Michael Häusler <haeusler@ponton-consulting.de> - missing OID update for SHA1 with RSA Signature.
- Johan Seland <johans@netfonds.no> - general toString for BigInteger class.
- Johannes Nicolai <johannes.nicolai@novosec.com> - further enhancements to OCSP response generation, fix to CertificateID issuer.
- Marc Doberva <marc.doberva@ilex-si.com> - help in isolating the JSSE/BC RSA key issue.

- Jan Dvorak <jan.dvorak@mathan.cz> - initial implementation of the light weight Null block cipher.
- Joe Cohen <jcohen@forumsys.com> - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.
- Chris Long<aalong@ece.cmu.edu> - adding public key decoding to PEMReader.
- Hes Siemelink<hes@izecom.com> - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.
- Stefan Puiu<stefanpuiu@yahoo.com> - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.
- Kaiser Yang <kaiseryang@yahoo.com> - Finding BigInteger loop problem in prime generation.
- Jiri Urbanec <jiri.urbanec@logicacmg.com> - patch to fix defect in DERBMPString.equals().
- Justin Kolb <jkolb@pristx.com> - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.
- Ralf Hauser <ralfhauser@gmx.ch> - 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.
- Michal Dvorak <M_Dvorak@kb.cz> - getNextUpdate patch for OCSP SingleResp.
- Klaus Greve Fiorentini <Klaus@cpqd.com.br> - array fix in PGP PublicKeyEncSessionPacket.
- Olivier Refalo <Olivier_Refalo@fpl.com> - null pointer exception fix for JDK 1.3 CMSSignedData objects.
- Mariusz Bandola <mariusz.bandola@cryptotech.com.pl> - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.
- Brien Oberstein <brien.oberstein@transacttools.net> - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.
- Ian Haywood <ian@haywood.bpa.nu> - addition of getSignatureType to PGPSignature.
- Jonathan Edwards <s34gull@mac.com> - initial support for reading multiple rings from a PGP key file.
- Andrew Thornton <andrew@caret.cam.ac.uk> - patch for RSA PUBLIC KEY in PEMReader.
- Gregor Leander <gl@bos-bremen.de> - initial parsing of multiple sequence entries in an X.500 Name.
- Antoon Bosselaers <Antoon.Bosselaers@esat.kuleuven.ac.be> - help with RipeMD320 implementation.
- Peter Sylvester <Peter.Sylvester@edelweb.fr> - improvements to the ASN.1 BasicConstraints object.
- Doug <ummmmm@myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.
- Francois Staes <fstaes@netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.
- W.R. Dittmer <wdittmer@cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPKeyPair to fix nullpointer exception.
- Perez Paz Luis Alberto <laperez@banxico.org.mx> - patch to use of BitString in X.500 name.
- James Wright <James_Wright@harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.
- Jim Ford <jim@muirford.com> - 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.

Michael Hausler <haeusler@#064ponton-consulting.de> - extra aliases for provider.

Sai Pullabhotla <psai@#064linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller <joseph@#064digiweb.net.nz> - addition of ZeroBytePadding.

Lars <xyz@#064sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen <jeroen@#064vanvianen.nl> - the Signed and Encrypted mail example.

Jun Sun <JSun@#064diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem <pdukem@#064email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva <filipe.silva@#064wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar <alps@#064linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach <jgengelbach@#064webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug <doug@#064tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy <mmundy1@#064umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill <cargill@#064profcon.com> - spelling patch in provider.

Breitenstrom Christian <C.Breitenstrom@#064t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko <zanotti@#064cad.it> - patch to ordered equality test for X509Name.

Nicola Scendoni <nscendoni@#064babelps.it> - patch to add sorting to CertPath validation.

Ville Skytt <ville.skytta@#064iki.fi> - 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.

Bruce Gordon <bruce.gordon@#064savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley <Miles.Whiteley@#064savvis.net> - "223" fix for BCPGInputStream new packets.

Albert Moliner <amoliner@#064evintia.com> - initial TSP implementation.

Carlos Lozano <carlos@#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgado <javi@#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala <joni.hahkala@#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.

Rolf Schillinger <rolf@#064sir-wum.de> - initial implementation of Attribute Certificate generation.

Sergey Bahtin <Sergey_Bahtin@#064yahoo.com> - 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.

Franck Leroy <Franck.Leroy@#064keynectis.com> - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamanaka <ymnk@#064jcraft.com> - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nikolay Bolshakov <tyrex@#064reksoft.ru> - patch for class cast exception in AuthorityInformationAccess class.

- Soren Hilmer <soren.hilmer@tietoenator.com> - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- 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. Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.
- Dirk Eisner <D.Eisner@seeburger.de> - initial implementation of ISO 78164-4 padding.
- Julien Pasquier <julienpasquier@free.fr> - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo <matartuso@libero.it> - sequence patch to ASN1Dump.
- Andrew Paterson <andrew.paterson@burnsecs.com> - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov <vladimir.n.molotkov@intel.com> - extensive provider exception handling compliance testing.
- Florin Kollan <adlocflo@web.de> - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev <paulvas@gmail.com> - Initial GOST28147Mac implementation.
- Tom Pesman <tom@tinux.net> - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk <lukasz.b.kowalczyk@gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch <Arndt.Hasch@maxence.de> - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) <bernd.fix@credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee <dmlee@Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon <md5@embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung <t2cung@hotmail.com> - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz <cschultz@gmail.com> - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee <dmlee@Crossroads.com> - implementation assistance with streaming CMS classes.
- Joel Rees <rees@ddcom.co.jp> - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau <francesc.sau@partners.netfocus.es> - micro fix for tsp Accuracy class.
- Larry Bugbee <bugbee@mac.com> - initial ECNR implementation.
- Remi Blancher <Remi.Blancher@keynectis.com> - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke <brianorourke@gmail.com> - patch for signature creation time override in OpenPGP.
- Andreas Schwier <andreas.schwier@cardcontact.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@hi-ho.ne.jp> - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

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

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

Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

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

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

Karsten Ohme <widerstand@t-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. Fix for RFC 5280 NameConstraint checking for RDNs.

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@gmail.com> - mods to GOST-3411 and MD2 to support ExtendedDigest.

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

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

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

Chris Viles <chris_viles@yahoo.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 <https://github.com/xipki> 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.

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

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

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

Xavier Le Vourch <xavier@brittanysoftware.com> - general code clean ups.

- Erik Tews <e_tews@informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding
- Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.
- Frank Cornelis <info@frankcornelis.be>;- addition of crlAccessMethod in X509ObjectIdentifiers.
- Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.
- David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.
- Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
- Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader
- Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.
- Olga Kaethler <olga.kaethler@hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.
- Germano Rizzo <germano.rizzo@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.
- Núria Marí <numaa@hotmail.com> - patch for alternate data type recognition in CMSSignedDataParser.
- Janis Schuller <js@tzi.de> - addition of NotationData packets for OpenPGP.
- Michael Samblanet <mike@samblanet.com> - patches towards improved Sun/default provider support in CMS.
- Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
- Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.
- Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.
- Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.
- Julien Pasquier <julienpasquier@free.fr> - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.
- Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.
- Jakub Gwozdz <gwozdziu@rpg.pl> - addition of getTsa() to TimestampTokenInfo.
- Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.
- Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].
- Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.
- Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.
- J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.
- Matthew Stevenson <mavricknz@yahoo.com> - patch to construtor for CRMF CertSequence.
- Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.
- Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in

response to HP_CERTIFICATE_REQUEST.
Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.
Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].
Alex Dupre <ale@FreeBSD.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@sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().
Ion Larrañaga <ilarra@s21sec.com> fix to default partial packet generation in BCPGOutputStream.
Bob Kerns <bob.kerns@positscience.com> fix to hashCode for X509CertificateObject.
Stefan Meyer <stefan.meyer@ewe.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@po.ntts.co.jp> speed ups for Camellia implementation, CamelliaLightEngine.
Emir Bucalovic <emir.bucalovic@mail.com> initial implementation of Grain-v1 and Grain-128.
Torbjorn Svensson <tobbe79@gmail.com> initial implementation of Grain-v1 and Grain-128.
Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc> error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.
Henrik Andersson <k.henrik.andersson@gmail.com> addition of UniqueIssuerID to certificate generation.
Cagdas Cirit <cagdascirit@gmail.com> subjectAlternativeName fix for x509CertStoreSelector.
Harakiri <harakiri_23@yahoo.com> datahandler patch for attached parts in SMIME signatures.
Pedro Henriques <pmahenriques@gmail.com> explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.
Lothar Kimmeringer <job@kimmeringer.de> verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.
Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.
Elisabetta Romani <eromani@sogei.it> patch for recognising multiple counter signatures.
Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.
Michael <emfau@t-online.de> correction of field error in getResponse method in

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Trevor Perrin <trevor@#064cryptography.com> addition of constant time equals to avoid possible timing attacks.
- Markus Kilås <markus@#064primekey.se> several enhancements to TimeStampResponseGenerator.
- Dario Novakovic <darionis@#064yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith <msmith@#064cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio <andrea.zilio@#064gmail.com> fix for PEM password encryption of private keys.
- Alex Birkett <alex@#064birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@#064gmail.com> additional OIDs for PKCS10 and certificate generation support.
- Frank Cornelis <info@#064frankcornelis.be> additional support classes for CADES, enhancements to OCSP classes.
- Jan Dittberner <jan@#064dittberner.info> addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@#064btinternet.com> patch to support different object and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@#064seeburger.de> fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@#064gmail.com> patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@#064hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@#064insiel.it> contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@#064unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@#064ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikociski <J.Sikocinski@#064gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@#064gmail.com> JavaDoc fix to CMSSignedDataParser.
- Liane Velten <liane.velten@#064hjp-consulting.com> fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@#064google.com> additional functionality to PGPKKeyRing.
- Atanas Krachev <akrachev@#064gmail.com> added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@#064keynectis.com> initial cut of EAC classes.
- Tim Buktu <tbuktu@#064hotmail.com> Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@#064gmail.com> Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@#064BEKK.no> Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@#064tngtech.com> Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@#064gmail.com> Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@#064gmail.com> Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@#064bers-soft.com> Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <daniel.f.nwr@#064gmail.com> Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective

coordinates for EC.
Andy Neilson <Andy.Neilson@quest.com>; a further patches to deal with multiple providers and PEMReader.
Ted Shaw <xiao.xj@gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.
Kenny Root <kenny@the-b.org>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
Maarten Bodewes <maarten.bodewes@gmail.com>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay <pilf_b@yahoo.com>; Initial implementation of J-PAKE.
Brian Carlstrom <bdc@carlstrom.com>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidén Borell <samuel@primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
Sergio Demian Lerner <sergiolerner@certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington <Tim.Whittington@orionhealth.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.
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.
Andrey Zhozhin <zhozhin@xrm.ru>; patch for override of TSP SignerInfo attributes.
Sergey Tiunov <t5555d@gmail.com>; initial cut of DVCS classes.
Damian Kolasa <fatfredy@gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.
Ash Hughes <ashley.hughes@blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().
Daniel Hirscher <dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.
Daniele Ricci <daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.
Matti Aarnio <matti.aarnio@methics.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, addition of NONEwithRSA to lightweight RSADigestSigner.
Babak Najafi <bnajafi@akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.
Eric Mueller <eric.mueller@sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts <Mathias.Herberts@064gmail.com>; fix to inOff usage in RFC3394WrapEngine.
Daniil Ivanov <daniil.ivanov@064gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.
Daniele Grasso <daniele.grasso86@064gmail.com>; contributions to final Key calculation code for SRP6.
Andrey Utkin <cindrhc@064gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.
Arnis Tartu <arnis@064ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.
AxelVDB <axel-vdb@064riseup.net>; initial implementation of Shacal2.
Roberto Tyley <>; further work on completing gradle build.
Waldemar Dick <wdick@064devmue.de>; code improvement in x500 ASN.1 package.
Sid Steward <sid.steward@064pdflabs.com>; code improvements to ASN1Boolean.
Alex Klyubin <klyubin@064google.com>; AlgorithmParameters check for EC key agreement.
Jonathan Gillett <gsoc.student@064gmail.com>; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.
Andreas Reiter <andreas.reiter@064iaik.tugraz.at>; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.
Kieran Miller <kieran.miller@064gmail.com>; initial implementation for RFC 5649 key wrap with padding.
Oliver Ehli<ehli@064arago.de>; Additional support for BSI plain ECDSA in the provider.
Daniel Heldt<Daniel.Heldt@064cryptovision.com>; Initial support for encodable state message digests
Robert Bushman <bouncycastle@064traxel.com>; Clean up of DirectKeySignature example.
Maurice Aarts<aarts@064riscure.com>; updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer<https://github.com/franziskuskiefer>; initial implementation of Cramer-Shoup.
KB Sriram<mail_kb@064yahoo.com>; testing for odd encodings for PGP User Attribute Subpackets.
Marco Schulze<marco@064nightlabs.de>; Reported verification bug in GenericSigner.
Martin Schaef<https://github.com/martinschaef>; contributed a code-cleanup patch.
dstutz<https://github.com/dstutz>; added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich<tobias.wich@064ecsec.de>; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens<hauke@064hauke-m.de>; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman<dmz@064galois.com>; Further key quality improvements to RSAKeyPairGenerator.
Jens Kapitz<j.kapitza@064schwarze-allianz.de>; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund<johan@064primekey.se>; update to RFC 6960 for OCSPObjectIdentifiers.
nikosn<https://github.com/nikosn>; Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch <axel-vdb@064riseup.net>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.
Derek Atkins <derek@064ihtfp.com>; Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky <peto@064halicky.sk>; Correction to notification/error message handling in SignedMailValidator.

- IartiguePierre<https://github.com/IartiguePierre>; Fix for counter signature SID in CMSSignedData.
- Thomas Belot<https://github.com/thomas.belot>; initial CertPathLoopTest for demonstrating stack overflow issue.
- Rich DiCroce<https://github.com/rdicroce>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
- Björn Kautler<https://github.com/Vampire>; Refinements to cert path validation (authority key addition, certificate order preservation).
- Dominik Schürmann<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.
- Michael MSKnet<https://github.com/msknet>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
- Tobias Wagner<https://github.com/tobias.wagner>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
- Sergio Giro<https://github.com/sgiro>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.
- bschuette<https://github.com/bschuette>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
- Leonard Dallot<https://github.com/dallot>; Fix to S2K usage of none on changing passwords on keys without passwords originally.
- Jan Willem Janssen<https://github.com/j.w.janssen>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
- Sebastian Oerding<https://github.com/sebastian.oerding>; Fixes to toString() in x509.CertificatePolicies.
- Kai Kramer<https://github.com/kai.kramer>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.
- Benoit Charles<https://github.com/benoit.charles>; Fix for IES data length check on decryption.
- Niko<https://github.com/nfink95>; fix to cast issue in getOutputSize() for ECIES.
- akwizgran<https://github.com/akwizgran>; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff<https://github.com/Matthias.Edelhoff>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat<https://github.com/lukasz.deputat>; Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig<https://github.com/justinludwig>; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
- André Berenguel<https://github.com/berenguel>; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
- Slawomir Jaranowski<https://github.com/slawkjaranowski>; Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<https://github.com/andrey-vasilyev>; Initial implementation of GOST R 34.11-2012.
- William Glanton<https://github.com/wglanton77>; Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<https://github.com/jdvorak001>; Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele<https://github.com/jnaegele>; Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<https://github.com/andybons>; NullPointer patch for WNAUtil.
- The Google Security Team (Project Wycheproof)<https://github.com/google/wycheproof>; defect analysis and additional test cases for the provider.

Gorka Irazoqui <girazoki@#064wpi.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 and finding cache sensitivities in EC key generation/signing.

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

Alexandr Krivoshta <wipe@#064ya.ru>; N4 calculation fix to GOFB mode.

Artem Storozhuk <storojs72@#064gmail.com>; N4 calculation fix to GOFB mode.

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

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

VivleSoren <https://github.com/VivleSoren>; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig <https://github.com/mtausig>; JavaDoc fix for MCSEncryptedDataGenerator.

Anders Schack-Mulligen <https://github.com/aschackmull>; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.

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

didisoft <https://github.com/didisoft>; test code for PGP signature removal involving user ids.

Mike Safonov<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.

Artem Storozhuk <storojs72@#064gmail.com>; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser <andreas.glaser@#064gi-de.com>; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne <https://github.com/cbpx>; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux <https://github.com/FauxFaux>; patch for JDK 1.9 update to DRBG.java.

4garbage <https://github.com/4garbage>; patch to allow GOST3410-94 private keys encoded as integers.

ekszz <https://github.com/ekszz>; corrections to SM2 signer to include default identity value.

jminer <https://github.com/jminer>; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d <https://github.com/str4d>; initial implementation of Blake2s

Scott Woodward <scott@#064bit3consulting.com>; performance fixes for CTRSP800DRBG.

David Strawn <https://github.com/isomarcte>; fix for off by one error in SCRYPT bounds checking.

chris mccown <0xchrismccown@#064gmail.com>; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis <https://github.com/ZZMarquis>; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer <https://github.com/Akretsch>; NPE fix for CertTemplate.getVersion()

Armin Lunkeit, Michael Tautenhahn <>; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser <https://github.com/Valodim>; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian <https://github.com/flooeey>; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd <https://github.com/ecki>; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

- Shartung <https://github.com/shartung> Additional EC Key Agreement algorithms in support of German BSI TR-03111.
- Paul Schaub <https://github.com/vanitasvitae> bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
- Nick of Nexsar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.
- catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.
- fgrieu <fgrieu@gmail.com> identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.
- MTG <https://github.com/mtgag> patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.
- Andreas Gadermaier <up.gadermaier@gmail.com> initial version of Argon2 PBKDF algorithm.
- Tony Washer <tony.washer@yahoo.co.uk> 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.
- Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.
- Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
- Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.
- Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.
- sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
- Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
- Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
- Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palmér, TrueSec <Henrik.Palmer@truesec.se> Additional improvements to constant time comparisons.
- René Korthaus<https://github.com/securitykernel> Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr<https://github.com/THausherr> Addition generic support for CMS/TSP functions.
- Gaylor Bosson<https://github.com/Gilthoniel> Initial implementation of Blake2xs.
- gaellalire<https://github.com/gaellalire> Patch for unprotected PGP private keys as SExpr.
- im-scooter<https://github.com/im-scooter> Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan<https://github.com/hitchan> Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche<https://github.com/dbusche> Argon2 optimisations.
- Daniel Heldt<https://github.com/dheldt> Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe<https://github.com/Xor-el> Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy <https://github.com/Gsealy> addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 <https://github.com/aphuang2013> update to path validation in EST service for ClearPath EST.
- Kevin Herron <https://github.com/kevinherron> Initial ChaCha20Poly1305 prototype.

```
<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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1.68 jackson-module-jaxb-annotations 2.9.10

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```
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```

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1.69 jetty-http 9.3.27.v20190418

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1.78 jtoml 1.0.0

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 */

```

```

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options {
  language    = Java;
  tokenVocab  = ANTLRParser;
  ASTLabelType = GrammarAST;
  // filter    = true;
}

```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}
```

```
@members {
    ATNFactory factory;
    public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
        this(input);
        this.factory = factory;
    }
}
```

```
dummy : block[null] ; // avoid error about no start rule
```

```
ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
```

```
@init {
    List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
    int alt = 1;
    factory.setCurrentOuterAlt(alt);
}
: ^(BLOCK
    (^ (OPTIONS .*)?
    ( a=alternative
        {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
    )+
    )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;
```

```

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
: ^(BLOCK ^(OPTIONS .*)? (a=alternative {alts.add($a.p);})+
  {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
: ^(LEXER_ALT_ACTION a=alternative lexerCommands)
  {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
| ^(ALT elementOptions? EPSILON)    {$p = factory.epsilon($EPSILON);}
| ^(ALT elementOptions? (e=element {els.add($e.p);})+ ) {$p = factory.alt(els);}
;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
: (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
  {
  $p = factory.alt(cmds);
  }
;

lexerCommand returns [ATNFactory.Handle cmd]
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
| ID
  {$cmd = factory.lexerCommand($ID);}
;

lexerCommandExpr
: ID
| INT
;

element returns [ATNFactory.Handle p]
: labeledElement  {$p = $labeledElement.p;}
| atom           {$p = $atom.p;}
| subrule       {$p = $subrule.p;}
| ACTION       {$p = factory.action((ActionAST)$ACTION);}
| SEMPRED     {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(ACTION .)  {$p = factory.action((ActionAST)$ACTION);}
| ^(SEMPRED .) {$p = factory.sempred((PredAST)$SEMPRED);}
| ^(NOT b=blockSet[true]) {$p = $b.p;}
| LEXER_CHAR_SET  {$p = factory.charSetLiteral($start);}
;

astOperand returns [ATNFactory.Handle p]
: atom  {$p = $atom.p;}

```

```

| ^(NOT blockSet[true]) {$p = $blockSet.p;}
;

labeledElement returns [ATNFactory.Handle p]
: ^(ASSIGN ID element) {$p = factory.label($element.p);}
| ^(PLUS_ASSIGN ID element) {$p = factory.listLabel($element.p);}
;

subrule returns [ATNFactory.Handle p]
: ^(OPTIONAL block[$start]) {$p = $block.p;}
| ^(CLOSURE block[$start]) {$p = $block.p;}
| ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
| block[null] {$p = $block.p;}
;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
: ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
: ^(STRING_LITERAL .)
| ^(TOKEN_REF .)
| STRING_LITERAL
| TOKEN_REF
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
| LEXER_CHAR_SET
;

atom returns [ATNFactory.Handle p]
: range {$p = $range.p;}
| ^(DOT ID terminal) {$p = $terminal.p;}
| ^(DOT ID ruleref) {$p = $ruleref.p;}
| ^(WILDCARD .) {$p = factory.wildcard($start);}
| WILDCARD {$p = factory.wildcard($start);}
| blockSet[false] {$p = $blockSet.p;}
| terminal {$p = $terminal.p;}
| ruleref {$p = $ruleref.p;}
;

ruleref returns [ATNFactory.Handle p]
: ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*)) {$p = factory.ruleRef($RULE_REF);}
| ^(RULE_REF ARG_ACTION?) {$p = factory.ruleRef($RULE_REF);}
| RULE_REF {$p = factory.ruleRef($RULE_REF);}
;

range returns [ATNFactory.Handle p]

```

```
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
;
```

terminal returns [ATNFactory.Handle p]

```
: ^(STRING_LITERAL .) {$p = factory.stringLiteral((TerminalAST)$start);}
| STRING_LITERAL {$p = factory.stringLiteral((TerminalAST)$start);}
| ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
| ^(TOKEN_REF .) {$p = factory.tokenRef((TerminalAST)$start);}
| TOKEN_REF {$p = factory.tokenRef((TerminalAST)$start);}
;
```

elementOptions

```
: ^(ELEMENT_OPTIONS elementOption*)
;
```

elementOption

```
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/parse/ATNBuilder.g
```

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jar/org/antlr/v4/parse/GrammarToken.java

* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/Recognizer.java

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* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

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* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/parse/ANTLRParser.g

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jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/target/CSharpTarget.java

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```

```

tree grammar BlockSetTransformer;
options {
    language    = Java;
    tokenVocab  = ANTLRParser;
    ASTLabelType = GrammarAST;
    output      = AST;
    filter      = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet

```

```

    | blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
  | CLOSURE
  | POSITIVE_CLOSURE
;

blockSet
@init {
  boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
  | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) (^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
  GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: (^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)

```

```

| {!inLexer}?=> TOKEN_REF
| {!inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
   CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
)
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/parse/BlockSetTransformer.g

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```
// File   : A3Lexer.g
// Author  : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version  : First implemented as part of ANTLR 3.2 this is the self
//           hosting ANTLR 3 Lexer.
//
// Description
// -----
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grmmars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{ } sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//
/** Read in an ANTLR grammar and build an AST. Try not to do
 * any actions, just build the tree.
 *
 * The phases are:
 *
 * A3Lexer.g (this file)
 *   A3Parser.g
 *   A3Verify.g (derived from A3Walker.g)
 * assign.types.g
 * define.g
 * buildnfa.g
 * antlr.print.g (optional)
 * codegen.g
```

```

*
* Terence Parr
* University of San Francisco
* 2005
* Jim Idle (this v3 grammar)
* Temporal Wave LLC
* 2009
*/
lexer grammar ANTLRLexer;

// =====
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// =====

// -----
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

// Target language is Java, which is the default but being specific
// here as this grammar is also meant as a good example grammar for
// for users.
//
language    = Java;

// The super class that this lexer should expect to inherit from, and
// which contains any and all support routines for the lexer. This is
// commented out in this baseline (definitive or normative grammar)
// - see the ANTLR tool implementation for hints on how to use the super
// class
//
//superclass = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright in this source and also the generated source
//
@lexer::header {
/*

```

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*/

```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
}
```

```
@members {
```

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

```
public CommonTokenStream tokens; // track stream we push to; need for context info
public boolean isLexerRule = false;
```

```
public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }
```

```
/** scan backwards from current point in this.tokens list
```

```
 * looking for the start of the rule or subrule.
```

```
 * Return token or null if for some reason we can't find the start.
```

```
*/
```

```
public Token getRuleOrSubruleStartToken() {
```

```
    if ( tokens==null ) return null;
```

```
    int i = tokens.index();
```

```
    int n = tokens.size();
```

```
    if ( i>=n ) i = n-1; // seems index == n as we lex
```

```

while ( i>=0 && i<n) {
int ttype = tokens.get(i).getType();
if ( ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF ) {
return tokens.get(i);
}
i--;
}
return null;
}
}

// -----
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
// Note how we guide the lexical PATH because we want to issue a decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

// Record the start line and offsets as if we need to report an
// unterminated comment, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = $line;
int offset = getCharPositionInLine();
}

: // Eat the first character only, then see if we have a comment
// or something silly.
//
'/' // Comment introducer

(
// Single line comment, possibly with embedded src/line directives
// in a similar style to the C pre-processor, allowing generated
// code to refer the programmer back to the original source code
// in case of error.
//
'/'
(
(' $ANTLR')=> ' $ANTLR' SRC

```

```

    | ~(NLCHARS)*
  )

| // Multi-line comment, which may be a documentation comment
  // if it starts /** (note that we protect against accidentally
  // recognizing a comment /**/ as a documentation comment
  //
  /** (
    { input.LA(2) != '/' }?=> '*' { $type = DOC_COMMENT; }
  | { true }?=> // Required to cover all alts with predicates
  )

  // Should we support embedded multiline comments here?
  //
  (
    // Pick out end of multiline comment and exit the loop
    // if we find it.
    //
    { !(input.LA(1) == '*' && input.LA(2) == '/') }?

    // Anything else other than the non-greedy match of
    // the comment close sequence
    //
    .
  )*
  (
    // Look for the comment terminator, but if it is accidentally
    // unterminated, then we will hit EOF, which will trigger the
    // epsilon alt and hence we can issue an error message relative
    // to the start of the unterminated multi-line comment
    //
    '*'

    | // Unterminated comment!
      //
      {
        // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
offset, $pos, (Object)null);
      }
    )

| // There was nothing that made sense following the opening '/' and so
  // we issue an error regarding the malformed comment
  //
  {
    // TODO: Insert error message relative to comment start
    //
  }

```



```

)
{
    // We do not wish to pass the comments in to the parser. If you are
    // writing a formatter then you will want to preserve the comments off
    // channel, but could just skip and save token space if not.
    //
    $channel=COMMENTS_CHANNEL;
}
;

ARG_OR_CHARSET
options {k=1;}
: {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
| {!isLexerRule}?=> ARG_ACTION
{
    $type=ARG_ACTION;
    // Set the token text to our gathered string minus outer [ ]
    String t = $text;
    t = t.substring(1,t.length()-1);
    setText(t);
}
;

fragment
LEXER_CHAR_SET
: '['
  ( '\\' ~('\r'\n')
    | ~('\r'\n'\\'']')
  )*
']'
;

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

```

```

    | ("\")=>ACTION_CHAR_LITERAL

    | ~("[']")
    )*

    '
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
('?' {$type = SEMPRED;}
 ( (WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
  {
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharPositionInLine(state.tokenStartCharPositionInLine);
    grammarError(ErrorType.V3_GATED_SEMPRED, t);
  }
 )?
 )?
;

// -----
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
fragment
NESTED_ACTION
@init {

```

```

// Record the start line and offsets as if we need to report an
// unterminated block, then we want to show the start of the comment
// we think is broken, not the end, where people will have to try and work
// it out themselves.
//
int startLine = getLine();
int offset = getCharPositionInLine();
}

```

```

: // Action and other blocks start with opening {
//
'{'
(
// And now we can match one of a number of embedded
// elements within the action until we find a
// } that balances the opening {. If we do not find
// the balanced } then we will hit EOF and can issue
// an error message about the brace that we believe to
// be mismatched. This won't be foolproof but we will
// be able to at least report an error against the
// opening brace that we feel is in error and this will
// guide the user to the correction as best we can.
//

```

```

// An embedded {} block
//
NESTED_ACTION

```

```

| // What appears to be a literal
//
ACTION_CHAR_LITERAL

```

```

| // We have assumed that the target language has C/Java
// type comments.
//
COMMENT

```

```

| // What appears to be a literal
//
ACTION_STRING_LITERAL

```

```

| // What appears to be an escape sequence
//
ACTION_ESC

```

```

| // Some other single character that is not

```

```

// handled above
//
~(\\|'|"|\\'|/|'{'|'})

)*

(
// Correctly balanced closing brace
//
}'

|// Looks like have an imbalanced {} block, report
// with respect to the opening brace.
//
{
// TODO: Report imbalanced {}
System.out.println("Block starting at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing a }");
}
)
;

// Keywords
// -----
// keywords used to specify ANTLR v3 grammars. Keywords may not be used as
// labels for rules or in any other context where they would be ambiguous
// with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS    : 'options' WSNLCHARS* '{' ;
TOKENS_SPEC : 'tokens' WSNLCHARS* '{' ;
CHANNELS   : 'channels' WSNLCHARS* '{' ;

IMPORT     : 'import'           ;
FRAGMENT   : 'fragment'         ;
LEXER      : 'lexer'           ;
PARSER     : 'parser'          ;
GRAMMAR    : 'grammar'         ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED  : 'protected'       ;
PUBLIC     : 'public'          ;
PRIVATE    : 'private'         ;
RETURNS    : 'returns'         ;
LOCALS     : 'locals'          ;
THROWS     : 'throws'          ;

```

```

CATCH      : 'catch'      ;
FINALLY    : 'finally'    ;
MODE       : 'mode'       ;

// -----
// Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON      : ':'
    {
        // scan backwards, looking for a RULE_REF or TOKEN_REF.
        // which would indicate the start of a rule definition.
        // If we see a LPAREN, then it's the start of the subrule.
        // this.tokens is the token string we are pushing into, so
        // just loop backwards looking for a rule definition. Then
        // we set isLexerRule.
        Token t = getRuleOrSubruleStartToken();
        if ( t!=null ) {
            if ( t.getType()==RULE_REF ) isLexerRule = false;
            else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
            // else must be subrule; don't alter context
        }
    }
;

COLONCOLON : '::'      ;
COMMA      : ','      ;
SEMI       : ';'      ;
LPAREN     : '('      ;
RPAREN     : ')'      ;
RARROW     : '->'     ;
LT         : '<'      ;
GT         : '>'      ;
ASSIGN     : '='      ;
QUESTION   : '?'      ;
SYNPRED    : '=>'
    {
        Token t = new CommonToken(input, state.type, state.channel,
            state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.V3_SYNPRED, t);
        $channel=HIDDEN;
    }
;

STAR       : '*'      ;
PLUS       : '+'      ;

```

```

PLUS_ASSIGN : '+='          ;
OR          : '|'          ;
DOLLAR     : '$'          ;
DOT        : '.'          ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE      : '..'         ;
AT         : '@'          ;
POUND      : '#'          ;
NOT        : '~'          ;
RBRACE     : '}'          ;

```

```

/** Allow unicode rule/token names */

```

```

ID : a=NameStartChar NameChar*
{
  if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
  else $type = RULE_REF;
}
;

```

```

fragment

```

```

NameChar : NameStartChar
| '0'..'9'
| '_'
| '\u00B7'
| '\u0300'..\u036F'
| '\u203F'..\u2040'
;

```

```

fragment

```

```

NameStartChar
: 'A'..'Z' | 'a'..'z'
| '\u00C0'..\u00D6'
| '\u00D8'..\u00F6'
| '\u00F8'..\u02FF'
| '\u0370'..\u037D'
| '\u037F'..\u1FFF'
| '\u200C'..\u200D'
| '\u2070'..\u218F'
| '\u2C00'..\u2FEF'
| '\u3001'..\uD7FF'
| '\uF900'..\uFD CF'
| '\uFDF0'..\uFEFE'
| '\uFF00'..\uFFFD'
; // ignores | [\u10000-\uEFFFF] ;

```

```

// -----

```

```

// Literals embedded in actions

```

```

//

```

```

// Note that we have made the assumption that the language used within

```

```

// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~\" )* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
: "\\" .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source spec

```

```

//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
        // TODO: Add target specific code to change the source file name and current line number
        //
    }
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx, where x
// is a valid hexadecimal number (as per Java basically).
STRING_LITERAL
: "\"" ( ( ESC_SEQ | ~("\|\"|\r|\n) ) ) *
  ( "\""
  | // Unterminated string literal
    {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
        grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
    }
  )
;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
: "\\"
  (
    // The standard escaped character set such as tab, newline,

```



```

    // etc.
    //
    'b'|'t'|'n'|'f'|'r'|'\''|'\"'|'\\'

|// A Java style Unicode escape sequence
//
UNICODE_ESC

|// An illegal escape sequence
//
{
    Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-1, getCharIndex());
    t.setText(t.getText());
    t.setLine(input.getLine());
    t.setCharPositionInLine(input.getCharPositionInLine()-1);
    grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
}
)
;

```

```

fragment
UNICODE_ESC

```

```

@init {

// Flag to tell us whether we have a valid number of
// hex digits in the escape sequence
//
int hCount = 0;
}

: 'u' // Leadin for unicode escape sequence

// We now require 4 hex digits. Note though
// that we accept any number of characters
// and issue an error if we do not get 4. We cannot
// use an infinite count such as + because this
// might consume too many, so we lay out the lexical
// options and issue an error at the invalid paths.
//
(
(
    HEX_DIGIT { hCount++; }
    (
        HEX_DIGIT { hCount++; }
        (
            HEX_DIGIT { hCount++; }
            (
                // Four valid hex digits, we are good

```

```

        //
        HEX_DIGIT { hCount++; }

    |// Three valid digits
    )

    |// Two valid digits
    )

    |// One valid digit
    )
    )
    |// No valid hex digits at all
    )

// Now check the digit count and issue an error if we need to
//
{
    if (hCount != 4) {
        Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-3-hCount, getCharIndex()-
1);
        t.setText(t.getText());
        t.setLine(input.getLine());
        t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
        grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t);
    }
}
;

// -----
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
: (
    ''
    | '\t'
    | '\r'
    | '\n'
    | '\f'
)+
{ $channel=HIDDEN; }
;

// A fragment rule for use in recognizing end of line in

```

```

// rules like COMMENT.
//
fragment
NLCHARS
    : '\n' | '\r'
    ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
    : ' ' | '\t' | '\f'
    ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
    : ' ' | '\t' | '\f' | '\n' | '\r'
    ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
    : '\uFEFF' {skip();}
    ;

// -----
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the gramamr file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
    : .
    {
        Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);

```

```

    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharacterPositionInLine(state.tokenStartCharPositionInLine);
    String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
    grammarError(ErrorType.SYNTAX_ERROR, t, msg);
    state.syntaxErrors++;
    skip();
}
;

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/parse/ANTLRLexer.g

```

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 */

```

lexer grammar ActionSplitter;

```

options { filter=true; }

```

```

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
    this(input, new RecognizerSharedState());
    this.delegate = delegate;
}

/** force filtering (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
    List<Token> chunks = new ArrayList<Token>();
    Token t = nextToken();
    while ( t.getType()!=Token.EOF ) {
        chunks.add(t);
        t = nextToken();
    }
    return chunks;
}

private boolean isIDStartChar(int c) {
    return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
: /*' ( options { greedy=false; } : . )* */' { delegate.text($text); }
;

LINE_COMMENT
: //' ~(\n|\r)* \r? \n' { delegate.text($text); }
;

SET_NONLOCAL_ATTR
: '$' x=ID ':' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
    delegate.setNonLocalAttr($text, $x, $y, $expr);
}
;

```

```

NONLOCAL_ATTR
: '$' x=ID ':' y=ID {delegate.nonLocalAttr($text, $x, $y);}
;

QUALIFIED_ATTR
: '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
;

SET_ATTR
: '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
{
  delegate.setAttr($text, $x, $expr);
}
;

ATTR
: '$' x=ID {delegate.attr($text, $x);}
;

// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
: ( c=~("\| '$') {buf.append((char)$c);}
| "\\$' {buf.append('$');}
| "\\ c=~('$') {buf.append('\\').append((char)$c);}
| {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
)+
;

fragment
ID : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
: ~'=' (~';')*
;

fragment
WS : (' '\t' '\n' '\r')+
;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
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jar/org/antlr/v4/tool/templates/depend.stg
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

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- * /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/automata/ATNOptimizer.java
- * /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/MatchToken.java
- * /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
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- * /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
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* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ToolMessage.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/misc/OrderedHashMap.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/AltAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/ModelElement.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/ArgAction.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/LexerGrammar.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java

* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/ActionAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ErrorMessage.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/LexerFactory.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/gui/TestRig.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/ParserFile.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/Target.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/Attribute.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/NotAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java

* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/EventManager.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/misc/MutableInt.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/PredAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/Rule.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/DOTGenerator.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/SrcOp.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/automata/ATNVisitor.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-

jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/semantics/AttributeChecks.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/tool/ANTLRToolListener.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/semantics/SymbolChecks.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/automata/ParserATNFactory.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/Tool.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/gui/SystemFontMetrics.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/Parser.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/tool/AttributeResolver.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/tool/Grammar.java

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 */
```

```
/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
```

```
 * Parses trees created by ANTLRParser.g.
 *
 * Rather than have multiple tree grammars, one for each visit, I'm
 * creating this generic visitor that knows about context. All of the
 * boilerplate pattern recognition is done here. Then, subclasses can
 * override the methods they care about. This prevents a lot of the same
 * context tracking stuff like "set current alternative for current
 * rule node" that is repeated in lots of tree filters.
 */
```

```
tree grammar GrammarTreeVisitor;
options {
language    = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
}
```

```
// Include the copyright in this source and also the generated source
@header {
/*
[The "BSD license"]
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```

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```
*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;
```

```

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
    CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
    setTreeNodeStream(nodes);
    try {
        Method m = getClass().getMethod(ruleName);
        m.invoke(this);
    }
    catch (Throwable e) {
        ErrorManager errMgr = getErrorManager();
        if ( e instanceof InvocationTargetException ) {
            e = e.getCause();
        }
        //e.printStackTrace(System.err);
        if ( errMgr==null ) {
            System.err.println("can't find rule "+ruleName+
                " or tree structure error: "+t.toStringTree()
            );
            e.printStackTrace(System.err);
        }
        else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
    }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }

public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
    ActionAST arg, ActionAST returns, GrammarAST thrws,

```

```

GrammarAST options, ActionAST locals,
List<GrammarAST> actions,
GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t, GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }

protected void enterOptionValue(GrammarAST tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

```

```
protected void enterTokensSpec(GrammarAST tree) { }  
protected void exitTokensSpec(GrammarAST tree) { }
```

```
protected void enterTokenSpec(GrammarAST tree) { }  
protected void exitTokenSpec(GrammarAST tree) { }
```

```
protected void enterChannelsSpec(GrammarAST tree) { }  
protected void exitChannelsSpec(GrammarAST tree) { }
```

```
protected void enterChannelSpec(GrammarAST tree) { }  
protected void exitChannelSpec(GrammarAST tree) { }
```

```
protected void enterAction(GrammarAST tree) { }  
protected void exitAction(GrammarAST tree) { }
```

```
protected void enterRules(GrammarAST tree) { }  
protected void exitRules(GrammarAST tree) { }
```

```
protected void enterMode(GrammarAST tree) { }  
protected void exitMode(GrammarAST tree) { }
```

```
protected void enterLexerRule(GrammarAST tree) { }  
protected void exitLexerRule(GrammarAST tree) { }
```

```
protected void enterRule(GrammarAST tree) { }  
protected void exitRule(GrammarAST tree) { }
```

```
protected void enterExceptionGroup(GrammarAST tree) { }  
protected void exitExceptionGroup(GrammarAST tree) { }
```

```
protected void enterExceptionHandler(GrammarAST tree) { }  
protected void exitExceptionHandler(GrammarAST tree) { }
```

```
protected void enterFinallyClause(GrammarAST tree) { }  
protected void exitFinallyClause(GrammarAST tree) { }
```

```
protected void enterLocals(GrammarAST tree) { }  
protected void exitLocals(GrammarAST tree) { }
```

```
protected void enterRuleReturns(GrammarAST tree) { }  
protected void exitRuleReturns(GrammarAST tree) { }
```

```
protected void enterThrowsSpec(GrammarAST tree) { }  
protected void exitThrowsSpec(GrammarAST tree) { }
```

```
protected void enterRuleAction(GrammarAST tree) { }  
protected void exitRuleAction(GrammarAST tree) { }
```

```
protected void enterRuleModifier(GrammarAST tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLabeledLexerElement(GrammarAST tree) { }
protected void exitLabeledLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }
```

```

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }

protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) { }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

@Override
public void traceIn(String ruleName, int ruleIndex) {

```



```

    System.err.println("enter "+ruleName+": "+input.LT(1));
}

@Override
public void traceOut(String ruleName, int ruleIndex) {
    System.err.println("exit "+ruleName+": "+input.LT(1));
}
}

grammarSpec
@init {
    enterGrammarSpec($start);
}
@after {
    exitGrammarSpec($start);
}
: ^( GRAMMAR ID {grammarName=$ID.text;}
    {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
    prequelConstructs
    {finishPrequels($prequelConstructs.firstOne);}
    rules mode*
    {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
)
;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
    enterPrequelConstructs($start);
}
@after {
    exitPrequelConstructs($start);
}
: {$firstOne=$start;} prequelConstruct+
|
;

prequelConstruct
@init {
    enterPrequelConstructs($start);
}
@after {
    exitPrequelConstructs($start);
}
: optionsSpec
| delegateGrammars
| tokensSpec
| channelsSpec
| action

```

```

;

optionsSpec
@init {
enterOptionsSpec($start);
}
@after {
exitOptionsSpec($start);
}
: ^(OPTIONS option*)
;

option
@init {
enterOption($start);
boolean rule = inContext("RULE ...");
boolean block = inContext("BLOCK ...");
}
@after {
exitOption($start);
}
: ^(a=ASSIGN ID v=optionValue)
{
if ( block ) blockOption($ID, $v.start); // most specific first
else if ( rule ) ruleOption($ID, $v.start);
else grammarOption($ID, $v.start);
}
;

optionValue returns [String v]
@init {
enterOptionValue($start);
$v = $start.token.getText();
}
@after {
exitOptionValue($start);
}
: ID
| STRING_LITERAL
| INT
;

delegateGrammars
@init {
enterDelegateGrammars($start);
}
@after {
exitDelegateGrammars($start);
}

```

```
}  
: ^(IMPORT delegateGrammar+)  
;
```

```
delegateGrammar  
@init {  
  enterDelegateGrammar($start);  
}  
@after {  
  exitDelegateGrammar($start);  
}  
: ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}  
| id=ID {importGrammar(null, $id);}  
;
```

```
tokensSpec  
@init {  
  enterTokensSpec($start);  
}  
@after {  
  exitTokensSpec($start);  
}  
: ^(TOKENS_SPEC tokenSpec+)  
;
```

```
tokenSpec  
@init {  
  enterTokenSpec($start);  
}  
@after {  
  exitTokenSpec($start);  
}  
: ID {defineToken($ID);}  
;
```

```
channelsSpec  
@init {  
  enterChannelsSpec($start);  
}  
@after {  
  exitChannelsSpec($start);  
}  
: ^(CHANNELS channelSpec+)  
;
```

```
channelSpec  
@init {  
  enterChannelSpec($start);
```

```

}
@after {
    exitChannelSpec($start);
}
: ID {defineChannel($ID);}
;

action
@init {
    enterAction($start);
}
@after {
    exitAction($start);
}
: ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
;

rules
@init {
    enterRules($start);
}
@after {
    exitRules($start);
}
: ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
;

mode
@init {
    enterMode($start);
}
@after {
    exitMode($start);
}
: ^( MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
;

lexerRule
@init {
    enterLexerRule($start);
    List<GrammarAST> mods = new ArrayList<GrammarAST>();
    currentOuterAltNumber=0;
}
@after {
    exitLexerRule($start);
}
: ^( RULE TOKEN_REF
    {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}

```

```

(^{RULEMODIFIERS m=FRAGMENT {mods.add($m);}})?
  {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
  lexerRuleBlock
  {
  finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
  currentRuleName=null; currentRuleAST=null;
  }
  )
;

rule
@init {
enterRule($start);
List<GrammarAST> mods = new ArrayList<GrammarAST>();
List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
currentOuterAltNumber=0;
}
@after {
exitRule($start);
}
: ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
(^{RULEMODIFIERS (m=ruleModifier {mods.add($m.start);})+})?
ARG_ACTION?
  ret=ruleReturns?
  thr=throwsSpec?
  loc=locals?
  ( opts=optionsSpec
  | a=ruleAction {actions.add($a.start);}
  )*
  {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
  $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
  $thr.start, $opts.start,
  $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
  actions, (GrammarAST)input.LT(1));}
  ruleBlock exceptionGroup
  {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
  )
;

exceptionGroup
@init {
enterExceptionGroup($start);
}
@after {
exitExceptionGroup($start);
}
: exceptionHandler* finallyClause?
;

```

```

exceptionHandler
@init {
    enterExceptionHandler($start);
}
@after {
    exitExceptionHandler($start);
}
: ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
;

```

```

finallyClause
@init {
    enterFinallyClause($start);
}
@after {
    exitFinallyClause($start);
}
: ^(FINALLY ACTION) {finallyAction((ActionAST)$ACTION);}
;

```

```

locals
@init {
    enterLocals($start);
}
@after {
    exitLocals($start);
}
: ^(LOCALS ARG_ACTION)
;

```

```

ruleReturns
@init {
    enterRuleReturns($start);
}
@after {
    exitRuleReturns($start);
}
: ^(RETURNS ARG_ACTION)
;

```

```

throwsSpec
@init {
    enterThrowsSpec($start);
}
@after {
    exitThrowsSpec($start);
}

```

```

: ^(THROWS ID+)
;

ruleAction
@init {
  enterRuleAction($start);
}
@after {
  exitRuleAction($start);
}
: ^(AT ID ACTION)
;

ruleModifier
@init {
  enterRuleModifier($start);
}
@after {
  exitRuleModifier($start);
}
: PUBLIC
| PRIVATE
| PROTECTED
| FRAGMENT
;

lexerRuleBlock
@init {
  enterLexerRuleBlock($start);
}
@after {
  exitLexerRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  lexerOuterAlternative
  )+
  )
;

ruleBlock
@init {
  enterRuleBlock($start);
}
@after {

```

```

exitRuleBlock($start);
}
: ^( BLOCK
  ( {
    currentOuterAltRoot = (GrammarAST)input.LT(1);
    currentOuterAltNumber++;
  }
  outerAlternative
)+
)
;

lexerOuterAlternative
@init {
  enterLexerOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitLexerOuterAlternative((AltAST)$start);
}
: lexerAlternative
;

outerAlternative
@init {
  enterOuterAlternative((AltAST)$start);
  discoverOuterAlt((AltAST)$start);
}
@after {
  finishOuterAlt((AltAST)$start);
  exitOuterAlternative((AltAST)$start);
}
: alternative
;

lexerAlternative
@init {
  enterLexerAlternative($start);
}
@after {
  exitLexerAlternative($start);
}
: ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
  | lexerElements
;

```



```
lexerElements
@init {
  enterLexerElements($start);
}
@after {
  exitLexerElements($start);
}
: ^(ALT lexerElement+)
;
```

```
lexerElement
@init {
  enterLexerElement($start);
}
@after {
  exitLexerElement($start);
}
: labeledLexerElement
| lexerAtom
| lexerSubrule
| ACTION {actionInAlt((ActionAST)$ACTION);}
| SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
| EPSILON
;
```

```
labeledLexerElement
@init {
  enterLabeledLexerElement($start);
}
@after {
  exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;
```

```
lexerBlock
@init {
  enterLexerBlock($start);
}
@after {
  exitLexerBlock($start);
}
: ^(BLOCK optionsSpec? lexerAlternative+)
;
```

```
lexerAtom
```

```

@init {
  enterLexerAtom($start);
}
@after {
  exitLexerAtom($start);
}
: terminal
| ^(NOT blockSet)
| blockSet
| ^(WILDCARD elementOptions)
| WILDCARD
| LEXER_CHAR_SET
| range
| ruleref
;

```

actionElement

```

@init {
  enterActionElement($start);
}
@after {
  exitActionElement($start);
}
: ACTION
| ^(ACTION elementOptions)
| SEMPRED
| ^(SEMPRED elementOptions)
;

```

alternative

```

@init {
  enterAlternative((AltAST)$start);
  discoverAlt((AltAST)$start);
}
@after {
  finishAlt((AltAST)$start);
  exitAlternative((AltAST)$start);
}
: ^(ALT elementOptions? element+)
| ^(ALT elementOptions? EPSILON)
;

```

lexerCommand

```

@init {
  enterLexerCommand($start);
}
@after {
  exitLexerCommand($start);
}

```

```

}
: ^(LEXER_ACTION_CALL ID lexerCommandExpr)
  {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
| ID
  {lexerCommand(currentOuterAltNumber, $ID);}
;

```

```

lexerCommandExpr
@init {
  enterLexerCommandExpr($start);
}
@after {
  exitLexerCommandExpr($start);
}
: ID
| INT
;

```

```

element
@init {
  enterElement($start);
}
@after {
  exitElement($start);
}
: labeledElement
| atom
| subrule
| ACTION    {actionInAlt((ActionAST)$ACTION);}
| SEMPRED   {sempredInAlt((PredAST)$SEMPRED);}
| ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
| ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}

| ^(NOT blockSet)
| ^(NOT block)
;

```

```

astOperand
@init {
  enterAstOperand($start);
}
@after {
  exitAstOperand($start);
}
: atom
| ^(NOT blockSet)
| ^(NOT block)
;

```

```

labeledElement
@init {
  enterLabeledElement($start);
}
@after {
  exitLabeledElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
;

```

```

subrule
@init {
  enterSubrule($start);
}
@after {
  exitSubrule($start);
}
: ^(blockSuffix block)
| block
;

```

```

lexerSubrule
@init {
  enterLexerSubrule($start);
}
@after {
  exitLexerSubrule($start);
}
: ^(blockSuffix lexerBlock)
| lexerBlock
;

```

```

blockSuffix
@init {
  enterBlockSuffix($start);
}
@after {
  exitBlockSuffix($start);
}
: ebnfSuffix
;

```

```

ebnfSuffix
@init {
  enterEbnfSuffix($start);
}
@after {

```

```

exitEbnfSuffix($start);
}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

```

atom

```

@init {
enterAtom($start);
}
@after {
exitAtom($start);
}
: ^(DOT ID terminal)
| ^(DOT ID ruleref)
| ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
| WILDCARD {wildcardRef($WILDCARD);}
| terminal
| blockSet
| ruleref
;

```

blockSet

```

@init {
enterBlockSet($start);
}
@after {
exitBlockSet($start);
}
: ^(SET setElement+)
;

```

setElement

```

@init {
enterSetElement($start);
}
@after {
exitSetElement($start);
}
: ^(STRING_LITERAL elementOptions) {stringRef((TerminalAST)$STRING_LITERAL);}
| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}
| TOKEN_REF {tokenRef((TerminalAST)$TOKEN_REF);}
| ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{
stringRef((TerminalAST)$a);
stringRef((TerminalAST)$b);
}

```

```

    }
    | LEXER_CHAR_SET
;

block
@init {
    enterBlock($start);
}
@after {
    exitBlock($start);
}
: ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
;

ruleref
@init {
    enterRuleref($start);
}
@after {
    exitRuleref($start);
}
: ^(RULE_REF arg=ARG_ACTION? elementOptions?)
{
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
}
;

range
@init {
    enterRange($start);
}
@after {
    exitRange($start);
}
: ^(RANGE STRING_LITERAL STRING_LITERAL)
;

terminal
@init {
    enterTerminal($start);
}
@after {
    exitTerminal($start);
}
: ^(STRING_LITERAL elementOptions)
    {stringRef((TerminalAST)$STRING_LITERAL);}
| STRING_LITERAL {stringRef((TerminalAST)$STRING_LITERAL);}

```

```

| ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
| TOKEN_REF      {tokenRef((TerminalAST)$TOKEN_REF);}
;

elementOptions
@init {
  enterElementOptions($start);
}
@after {
  exitElementOptions($start);
}
: ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*);

elementOption[GrammarASTWithOptions t]
@init {
  enterElementOption($start);
}
@after {
  exitElementOption($start);
}
: ID      {elementOption(t, $ID, null);}
| ^(ASSIGN id=ID v=ID) {elementOption(t, $id, $v);}
| ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=ACTION) {elementOption(t, $ID, $v);}
| ^(ASSIGN ID v=INT) {elementOption(t, $ID, $v);}
;

```

Found in path(s):

* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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```

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 */

```
tree grammar SourceGenTriggers;
options {
  language = Java;
  tokenVocab = ANTLRParser;
  ASTLabelType = GrammarAST;
}
```

```
@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
}
```

```
@members {
public OutputModelController controller;
public boolean hasLookaheadBlock;
public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
  this(input);
  this.controller = controller;
}
}
```

```
dummy : block[null, null] ;
```

```
block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
```



```

    ( alternative {alts.add($alternative.altCodeBlock);} )+
  )
  {
  if ( alts.size()==1 && ebnfRoot==null) return alts;
  if ( ebnfRoot==null ) {
    Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
  }
  else {
    Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
    hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
    Somos = DefaultOutputModelFactory.list(choice);
  }
  }
  ;

```

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

```

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]

```

@init {
  // set alt if outer ALT only (the only ones with alt field set to Alternative object)
  AltAST altAST = (AltAST)retval.start;
  if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
}
^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

| ^(ALT elementOptions? EPSILON)
  { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
;

```

element returns [List<? extends SrcOp> omos]

```

: labeledElement { $omos = $labeledElement.omos; }
| atom[null,false] { $omos = $atom.omos; }
| subrule { $omos = $subrule.omos; }

```

```

| ACTION      { $omos = controller.action((ActionAST)$ACTION); }
| SEMPRED     { $omos = controller.sempred((ActionAST)$SEMPRED); }
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); }
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }
;

```

```

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos; }
| ^(PLUS_ASSIGN ID atom[$ID,false] ) { $omos = $atom.omos; }
| ^(ASSIGN ID block[$ID,null] ) { $omos = $block.omos; }
| ^(PLUS_ASSIGN ID block[$ID,null] ) { $omos = $block.omos; }
;

```

```

subrule returns [List<? extends SrcOp> omos]
: ^(OPTIONAL b=block[null,$OPTIONAL])
{
  $omos = $block.omos;
}
| ( ^(op=CLOSURE b=block[null,null])
| ^(op=POSITIVE_CLOSURE b=block[null,null])
)
{
  List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
  SrcOp blk = $b.omos.get(0);
  CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
  alt.addOp(blk);
  alts.add(alt);
  SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
  hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
  $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] { $omos = $block.omos; }
;

```

```

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(SET atom[label,invert]+) { $omos = controller.set($SET, $label, invert); }
;

```

```

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^(RANGE STRING_LITERAL STRING_LITERAL)
;
*/

```

```

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT

```

```

atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^(NOT a=atom[$label, true]) {$omos = $a.omos;}
| range[label] {$omos = $range.omos;}
| ^(DOT ID terminal[$label])
| ^(DOT ID ruleref[$label])
| ^(WILDCARD .) {$omos = controller.wildcard($WILDCARD, $label);}
| WILDCARD {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos = controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/codegen/SourceGenTriggers.g
No license file was found, but licenses were detected in source scan.

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- */

/** Find left-recursive rules */

tree grammar LeftRecursiveRuleWalker;

```
options {
    tokenVocab=ANTLRParser;
    ASTLabelType=GrammarAST;
}
```

```
@header {
    package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}
```

```
@members {
    private String ruleName;
    private int currentOuterAltNumber; // which outer alt of rule?
    public int numAlts; // how many alts for this rule total?
```

```

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
^(RETURNS a=ARG_ACTION {setReturnValues($a);})?
// (^(THROWS .+)? don't allow
(^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
(^(OPTIONS .*)
| ^(AT ID ACTION) // TODO: copy
)*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED

```

```

;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^( BLOCK
  (
    o=outerAlternative
    {if ($o.isLeftRec) $isLeftRec = true;}
    {currentOuterAltNumber++;}
  )+
)
;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=>    binary
    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=>    prefix
    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=>    suffix
    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur    {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^( ALT elementOptions? recurse element* recurse epsilonElement* )
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^( ALT elementOptions?
  ({!((CommonTree)input.LT(1)).getText().equals(ruleName)}? element)+
  recurse epsilonElement*
)
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^( ALT elementOptions? recurse element+ )
    {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)

```

```

| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL      {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF           {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

elementOption
: ID
| ^(ASSIGN ID ID)
| ^(ASSIGN ID STRING_LITERAL)
| ^(ASSIGN ID ACTION)
| ^(ASSIGN ID INT)
;

element
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;

epsilonElement
: ACTION
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;

setElement

```

```
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

```
ebnf: block
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018364035_1591904161.99/0/antlr4-4-5-3-sources-
jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
```

1.91 aspectj-tools 1.8.13

1.92 log4j-api 2.8.2

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Apache Log4j 1.x Compatibility API
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1.94 junit 4.10

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* /opt/ws_local/PERMITS_SQL/1018976869_1591372852.74/0/junit-4-10-sources-
jar/org/junit/runners/model/MultipleFailureException.java

1.95 opentracing-util 0.31.0

1.96 j2objc-annotations 1.1

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```
*  
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- * file name: UBiDiProps.java
- * encoding: US-ASCII
- * tab size: 8 (not used)
- * indentation:4
- *
- * created on: 2005jan16
- * created by: Markus W. Scherer
- *
- * Low-level Unicode bidi/shaping properties access.
- * Java port of ubidi_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the bold font" has range (4, 8) replaced with "strong", then it becomes "the strong font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

Set the metadata of the new text to the metadata of the first character replaced

If no characters are replaced, use the metadata of the previous character

If there is no previous character (i.e. start == 0), use the following character

If there is no following character (i.e. the replaceable was empty), use default metadata

If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable

@author Alan Liu

@stable ICU 2.0

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*/

package java.security;

```

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

```

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1.97 jacoco-agent 0.8.3

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1.99 jacoco-cli 0.8.3

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1.100 protobuf-java 3.5.1

1.101 jackson-dataformat-yaml 2.4.2

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1.102 mongo-java-driver 3.0.4

1.103 abego-treelayout-core 1.0.1

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1.104 httpasyncclient 4.1.4

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1.106 antlr 3.5.2

1.107 lz4-java 1.2.0

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1.108 httpcore-nio 4.4.11

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1.109 animal-sniffer-annotation 1.14

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1.110 metrics-json 3.1.0

1.111 jersey-container-servlet-core 2.5.1

1.111.1 Available under license :

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```

```
*/
package org.apache.ivy.core.module.descriptor;
```

```
public class License {
    private String name;

    private String url;

    public License(String name, String url) {
        this.name = name;
        this.url = url;
    }

    public String getName() {
        return name;
    }

    public String getUrl() {
        return url;
    }
}
```

1.113 jcip-annotation 1.0 1

1.113.1 Available under license :

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- */

Found in path(s):

- * /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java
- * /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
- * /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/GuardedBy.java
- * /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

1.114 jetty-continuation 9.3.27.v20190418

1.115 proto-google-common-protos 1.0.0

1.116 instrumentation-api 0.4.3

1.117 stax 4.2

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1.118 gson 2.8.2

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1.119 opentracing-api 0.31.0

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1.120 okhttp 3.9.0

1.121 swagger-annotations 1.5.0

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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/swagger-api/swagger-spec/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 "";
}

```

1.122 hibernate-validator 5.0.0

1.123 grpc-stub 1.9.0

1.124 metrics-health-checks 3.1.0

1.125 jsr305 3.0.0

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1.130 jackson-databind 2.10.0

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1.131 metrics-core 2.2.0

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1.132 grpc-protobuf-lite 1.9.0

1.133 grpc-context 1.9.0

1.134 commons-lang3 3.9

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1.135 compiler 0.9.3

1.136 websocket-common 9.3.27.v20190418

1.137 antlr-runtime 4.5.3

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1.138 jackson-datatype-joda 2.4.2

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1.139 zkclient 0.3

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 */
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jar/org/IOItec/zkclient/ExceptionUtil.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/ContentWatcher.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/GatewayThread.java
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jar/org/IOItec/zkclient/exception/ZkNoNodeException.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
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jar/org/IOItec/zkclient/ZkServer.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/exception/ZkMarshallingError.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
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jar/org/IOItec/zkclient/IZkConnection.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
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* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/ZkEventThread.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
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jar/org/IOItec/zkclient/Holder.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/DataUpdater.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/serialize/SerializableSerializer.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/IZkDataListener.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/NetworkUtil.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-

```
jar/org/IOItec/zkclient/ZkLock.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/serialize/BytesPushThroughSerializer.java
* /opt/ws_local/PERMITS_SQL/1018977252_1591391841.64/0/zkclient-0-3-sources-
jar/org/IOItec/zkclient/exception/ZkException.java
```

1.140 javax-el-api 2.2.4

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1.141 jackson-jaxrs-json-provider 2.9.10

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The following people and organisations donated financially to help with the release of 1.57:

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We also wish to acknowledge financial and collaborative support from CISCO and additional financial support from PrimeKey towards developing the EST API for RFC 7030 support.

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The following people and organisations donated financially to help with the release of 1.56:

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The following people and organisations donated financially to help with the release of 1.52:

lecker@buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

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Gup & Boz @ Alki Seattle, Bytemine GmbH, Ted Pennings, Atanas Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

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- Grier Forensics, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
- TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
- TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: http://www.flexiprovider.de/
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- Core Infrastructure Initiative - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.
- Additional CertPath testing and validation data from the CertPath testing tool developed by cryptosource GmbH and media Transfer AG both located in Darmstadt, Germany.
- Micro Focus - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.

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People

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- Tito Pena <Fortunato.Pena@AdNovum.CH>; - initial RC5 implementation
- Michael Lee <yfl@mira.net>; - initial RC6 implementation, MD2 implementation
- Nuno Santos <nsantos@student.dei.uc.pt>; - finding toString bug in certificate object.
- Brett Sealey <bretts@mortbay.com>; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).
- Victor A. Salaman <salaman@teknos.com>; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.
- Eran Librach <eranl@valicert.com>; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).
- Jonathan Knudsen <jonathan@LearningPatterns.com>; - porting information and restrictions when using the lightweight library with the MIDP environment.
- Markus Niedermann <markus.niedermann@softwired-inc.com>; - porting information and restrictions when using the lightweight library with the

MIDP environment.

Mike Benham <moxie@thoughtcrime.org> - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer <hilmer@mail.tele.dk> - initial implementation of netscape certificate request classes.

Uwe Guenther <uwe@csc.de> - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke <mab@informatik.uni-kiel.de> - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierek <waclaw.sierek@tpg.pl> - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

Ly-Na Phu <lyna.phu@init-consulting.de> - assistance in the addition of ISO 9796-1 padding.

Stefan Köpsell <sk13@mail.inf.tu-dresden.de> - making the jdk 1.1 version of the collections API available. For further details see

http://sourceforge.net/projects/jcf/

Carmen Bastiaans <cbastiaa@microbits.com.au> - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson <tomasg@primekey.se> - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugen Kuleshov <euxx@hotmail.com> - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods <meganwoods@sekurafile.com> - initial implementation of ECIES.

Christian Geuer-Pollmann <geuerp@apache.org> - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.

Michael Mühle <michael@mouling.de> - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.

Michael Mansell <me@michaelmansell.com> - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker <eike.recker@gmx.de> - fixing misspelling of provider reference for RSA/1 and RSA/2.

Chris Southern <CSouthern@baltimore.com> - fixing misuse of specified provider in the PKCS10 certification request class.

Sidney Markowitz <sidney@sidney.com> - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

Chris Kerr <ckerr@filonet.ca> - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations,

NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction.

We also

wish to acknowledge the generosity of Filonet

Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

Mike Bean <mbean@lucentradius.com>; - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek <e9526225@student.tuwien.ac.at>; - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms <jgarms@yahoo.com>; - fixing 112/168 key size bug for DESede key generation.

Mike Bremford <mike@big.faceless.org>; - contributing the initial PKCS7 implementation.

Shankar Srinivasan <ssr002@yahoo.com>; - S/Mime interoperability testing and debugging.

Stef Hoeben <ilsestef@skynet.be>; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk <kciosk@max.com.pl>; - improving the compatibility of the SMIME package with the Sun JCE.

Thomas Houtekier <Thomas.Houtekier@tctrade.net>; - S/Mime testing and debugging.

Interoperability with

Biztalk.

Don Hillsberry <hillsber@dialcorp.com>; - S/Mime testing and debugging.

Kazuo Furuya <kfuruya@infotera.co.jp>; - fixing root certificate chaining bug in PKCS12 key store.

Jason Novotny <jdnovotny@lbl.gov>; - initial work on the openSSL PEM processing.

Joel Hockey <joel.hockey@qsipayments.com>; - initial work on the openSSL PEM processing.

John Steenbruggen <JohnS@geotrust.com>; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.

Justin Chapweske <justin@chapweske.com>; - ordering patch for Tiger message digest.

John Serock <jserock@hotmail.com>; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId.

Compliance of KeyUsage extension return value with security API.

Sascha Weinreuter <Sascha.Weinreuter@cit.de>; - fixed SMIME saveChanges() bug.

Andre Wehnert <aw5@mail.inf.tu-dresden.de>; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.

Luigi Lo Iacono <lo_iacono@nue.et-inf.uni-siegen.de>; - adding SIC mode to the blockciphers in the provider.

Tim Sakach <tsakach@certivo.net>; - SMIME v2 compatibility patches.

Marcus Povey <mpovey@brookes.ac.uk>; - adding the PGP mode to the lightweight API and the provider.

Sebastian Clau <sc2@inf.tu-dresden.de>; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza <nicolas.bielza@alligacom.com>; - 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.

Casey Marshall <rsdio@metastatic.org>; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes <rick.zeldes@eds.com>; - initial code for CMS/SMIME CompressedData.

Jarek Gawor <gawor@mcs.anl.gov>; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier <random@rnd.cx>; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles <graham.coles@retail-logic.com>; - patch to isParityAdjusted in DESKeySpec.
Jörn von Kattchee <J.Kattchee@seeburger.de>; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.
Matteo Artuso <matartuso@libero.it>; - picking up the possible overread in ASN1InputStream.
Julian Morrison <julian@extropy.demon.co.uk>; - spotting the slow down in Diffie-Hellman key generation.
Elmar Sonnenschein <eso@esomail.de>; - fix to long conversion in clean room SecureRandom.
Jörn Schwarze <JSchwarze@ulc.de>; - Locale fix for the clean room JCE.
Bryan Lovquist <bkl@cps.com.au>; - Other provider compatibility fixes for CMS signing.
Artem Portnoy <Artem_Portnoy@ibi.com>; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.
Michael Häusler <haeusler@ponton-consulting.de>; - missing OID update for SHA1 with RSA Signature.
Johan Seland <johans@netfonds.no>; - general toString for BigInteger class.
Johannes Nicolai <johannes.nicolai@novosec.com>; - further enhancements to OCSP response generation, fix to CertificateID issuer.
Marc Doberva <marc.doberva@ilex-si.com>; - help in isolating the JSSE/BC RSA key issue.
Jan Dvorak <jan.dvorak@mathan.cz>; - initial implementation of the light weight Null block cipher.
Joe Cohen <jcohen@forumsys.com>; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.
Chris Long <along@ece.cmu.edu>; - adding public key decoding to PEMReader.
Hes Siemelink <hes@izecom.com>; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.
Stefan Puiu <stefanpuiu@yahoo.com>; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.
Kaiser Yang <kaiseryang@yahoo.com>; - Finding BigInteger loop problem in prime generation.
Jiri Urbanec <jiri.urbanec@logicacmg.com>; - patch to fix defect in DERBMPString.equals().
Justin Kolb <jkolb@pristx.com>; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.
Ralf Hauser <ralfhauser@gmx.ch>; - 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.
Michal Dvorak <M_Dvorak@kb.cz>; - getNextUpdate patch for OCSP SingleResp.
Klaus Greve Fiorentini <Klaus@cpqd.com.br>; - array fix in PGP PublicKeyEncSessionPacket.
Olivier Refalo <Olivier_Refalo@fpl.com>; - null pointer exception fix for JDK 1.3 CMSSignedData objects.
Mariusz Bandola <mariusz.bandola@cryptotech.pl>; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.
Brien Oberstein <brien.oberstein@transacttools.net>; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.
Ian Haywood <ian@haywood.bpa.nu>; - addition of getSignatureType to PGPSignature.
Jonathan Edwards <s34gull@mac.com>; - initial support for reading multiple rings from a PGP key file.
Andrew Thornton <andrew@caret.cam.ac.uk>; - patch for RSA PUBLIC KEY in PEMReader.
Gregor Leander <gl@bos-bremen.de>; - initial parsing of multiple sequence entries in an X.509

Name.

Antoon Bosselaers <Antoon.Bosselaers@esat.kuleuven.ac.be> - help with RipeMD320 implementation.

Peter Sylvester <Peter.Sylvester@edelweb.fr> - improvements to the ASN.1 BasicConstraints object.

Doug <ummmm@myrealbox.com> - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes <fstaes@netconsult.be> - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer <wdittmer@cs.vu.nl> - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto <laperez@banxico.org.mx> - patch to use of BitString in X.500 name.

James Wright <James_Wright@harte-hanks.com> - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford <jim@muirford.com> - 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.

Michael Hausler <haeusler@ponton-consulting.de> - extra aliases for provider.

Sai Pullabhotla <psai@linoma.com> - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller <joseph@digiweb.net.nz> - addition of ZeroBytePadding.

Lars <xyz@sagemdenmark.dk> - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen <jeroen@vanvianen.nl> - the Signed and Encrypted mail example.

Jun Sun <JSun@diversinet.com> - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem <pdukem@email.cz> - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva <filipe.silva@wedoconsulting.com> - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar <alps@linuxmail.org> - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach <jgengelbach@webmethods.com> - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug <doug@tigerprivacy.com> - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy <mmundy1@umbc.edu> - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill <cargill@profcon.com> - spelling patch in provider.

Breitenstrom Christian <C.Breitenstrom@t-systems.com> - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko <zanotti@cad.it> - patch to ordered equality test for X509Name.

Nicola Scandoni <nscandoni@babelps.it> - patch to add sorting to CertPath validation.

Ville Skytt@iki.fi> - 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.

Bruce Gordon <bruce.gordon@savvis.net> - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley <Miles.Whiteley@#064savvis.net> - "223" fix for BCPGInputStream new packets.
Albert Moliner <amoliner@#064evintia.com> - initial TSP implementation.
Carlos Lozano <carlos@#064evintia.com> - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
Javier Delgado <javi@#064javi.codewarp.org> - initial Mozilla PublicKeyAndChallenge classes.
Joni Hahkala <joni.hahkala@#064cern.ch> - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the EGEE project for making the work available.
Rolf Schillinger <rolf@#064sir-wum.de> - initial implementation of Attribute Certificate generation.
Sergey Bahtin <Sergey_Bahtin@#064yahoo.com> - 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.
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Lukasz Kowalczyk <lukasz.b.kowalczyk@#064gmail.com> - patch to fix parsing issue with OpenSSL PEM based certificate requests.
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Fix Bernd (KCDP 11) <bernd.fix@#064credit-suisse.com> - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee <dmlee@#064Crossroads.com> - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
Mike Dillon <md5@#064embody.org> - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
tu-vi cung <t2cung@#064hotmail.com> - patch for out of bounds problem in getDecoderStream

method.

Chris Schultz <cschultz@gmail.com>; - fix for InputStream constructor for X509V2AttributeCertificate.

David M. Lee <dmllee@crossroads.com>; - implementation assistance with streaming CMS classes.

Joel Rees <rees@ddcom.co.jp>; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau <francesc.sau@partners.netfocus.es>; - micro fix for tsp Accuracy class.

Larry Bugbee <bugbee@mac.com>; - initial ECNR implementation.

Remi Blancher <Remi.Blancher@keynectis.com>; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke <brianorourke@gmail.com>; - patch for signature creation time override in OpenPGP.

Andreas Schwier <andreas.schwier@cardcontact.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@hi-ho.ne.jp>; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

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

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

Keyon AG, Martin Christinat, http://www.keyon.ch - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, <olaf.keller@bluewin.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@t-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. Fix for RFC 5280 NameConstraint checking for RDNs.

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@gmail.com>; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen <sneusatz@gmail.com>; - initial version of RoleSyntax, improvements to

AttributeCertificateHolder and AttributeCertificateIssuer.

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

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

Chris Viles <chris_viles@yahoo.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 <https://github.com/xipki> - 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.

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

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

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

Xavier Le Vouch <xavier@brittanysoftware.com> - general code clean ups.

Erik Tews <e_tews@cdc.informatik.tu-darmstadt.de> - initial threaded random seed generator, constant-time PKCS#1.5 decoding

Thomas Dixon <reikomusha@gmail.com> - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis <info@frankcornelis.be> - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim <rjoaquim@cc.isel.ipl.pt> - initial implementation of RSA blinding for signatures.

David Stacey <DStacey@allantgroup.com> - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers <list@mitm.nl> - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies <juliusdavies@gmail.com> - additional modes and algorithm support in PEMReader

Matthias <g@rtner.de> - GnuPG compatibility changes for PBEFileProcessor.

Olga Küthler <olga.kaethler@hjp-consulting.com> - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo <germano.rizzo@gmail.com> - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

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Mike StJohns <mstjohns@comcast.net> - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller <ramon.keller@gmx.ch> - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson <mark@nbr.com> - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov <eugene_gff@ukr.net> - mask fix to single byte read in TlsInputStream.

Julien Pasquier <julienpasquier@free.fr>; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp <pknopp@mtg.de>; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz <gwozdz@rpg.pl>; - addition of getTsa() to TimestampTokenInfo.

Bartosz Malkowski <bmalkow@tigase.org>; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi <tal.yacobi@octavian-tech.com>; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com>; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko <andrey.a.pavlenko@gmail.com>; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll <jrn@jrn.me.uk>; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson <mavricknz@yahoo.com>; - patch to constructor for CRMF CertSequence.

Gabriele Contini <gcontini@hotpop.com>; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude <roelof.naude@epiuse.com>; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck <peck@signaturen.at>; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay <lemaymd@lemaymd.com>; - identified problem with EAX [#BJA-93].

Alex Dupre <ale@FreeBSD.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@sigrid-und-michael.de>; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimestampResponse.validate().

Ion Larrañaga <ilarra@s21sec.com>; fix to default partial packet generation in BCPGOutputStream.

Bob Kerns <bob.kerns@positscience.com>; fix to hashCode for X509CertificateObject.

Stefan Meyer <stefan.meyer@ewe.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@po.ntts.co.jp>; speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic <emir.bucalovic@mail.com>; initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson <tobbe79@gmail.com>; initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick <bouncycastle_pfitz@fitzpatrick.cc>; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

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

Cagdas Cirit <cagdas.cirit@gmail.com>; subjectAlternativeName fix for x509CertStoreSelector.

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

Pedro Henriques <pmahenriques@gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAPEncoding.

Lothar Kimminger <job@kimminger.de>; verbose mode for ASNIDump, support for DERExternal, DNS performance fix for S/MIME API.

- Richard Farr <rfarr.se@gmail.com> initial SRP-6a implementation.
- Thomas Castiglione <castiglione@au.ibm.com> patch to encoding for CRMF OptionalValidity.
- Elisabetta Romani <eromani@sopei.it> patch for recognising multiple counter signatures.
- Robin Lundgren <r737lundgren@gmail.com> CMPCertificate constructor from X509CertificateStructure fix.
- Petr Kadlec <mormegil@centrum.cz> fix to sign extension key and IV problem in HC-128, HC-256.
- Andreas Antener <antener_a@gmx.ch> fix to buffer reset in AsymmetricBufferedBlockCipher.
- Harendra Rawat <hsrawat@yahoo.com> fix for BERConstructedOctetString.
- Rolf Lindemann <lindemann@trustcenter.de> patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].
- Alex Artamonov <alexart.home@gmail.com> name look up patch for GOST-2001 parameters.
- Mike Lyons <mlyons@layer7tech.com> work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.
- Chris Cole <chris_h_cole@yahoo.com> identified a problem handling null passwords when loading a BKS keystore.
- Tomas Krivanek <tom@atack.cz> added checking of Sender header to SignedMailValidator.
- Michael <emfau@t-online.de> correction of field error in getResponse method in CertRepMessage.
- Trevor Perrin <trevor@cryptography.com> addition of constant time equals to avoid possible timing attacks.
- Markus Kilås <markus@primekey.se> several enhancements to TimeStampResponseGenerator.
- Dario Novakovic <darionis@yahoo.com> fix for NPE when checking revocation reason on CRL without extensions.
- Michael Smith <msmith@cbnco.com> bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.
- Andrea Zilio <andrea.zilio@gmail.com> fix for PEM password encryption of private keys.
- Alex Birkett <alex@birkett.co.uk> added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].
- Wayne Grant <waynedgrant@gmail.com> additional OIDs for PCKS10 and certificate generation support.
- Frank Cornelis <info@frankcornelis.be> additional support classes for CADES, enhancements to OCSP classes.
- Jan Dittberner <jan@dittberner.info> addHeader patch for SMIME generator.
- Bob McGowan <boab.mcgoo@btinternet.com> patch to support different object and mgf digests in PSS signing.
- Ivo Matheis <i.matheis@seeburger.de> fix to padding verification in ISO-9796-1.
- Marco Sandrini <nessche@gmail.com> patch to add IV to ISO9797Alg3Mac.
- Alf Malf <alfilmalf@hotmail.com> removal of unnecessary limit in CMSContentInfoParser.
- Alfonso Massa <alfonso.massa@insiel.it> contributions to CMS time stamp classes.
- Giacomo Boccardo <gboccardo@unimaticaspa.it> initial work on CMSTimeStampedDataParser.
- Arnis Tartu <arnis@ut.ee> patches for dealing with OIDs with specific key sizes associated in CMS.
- Janusz Sikocinski <J.Sikocinski@gdzie.pl> addition of Features subpacket support to OpenPGP API.
- Juri Hudolejev <jhudolejev@gmail.com> JavaDoc fix to CMSSignedDataParser.

- Liane Velten <liane.velten@hjp-consulting.com>; fine tuning of code for DHParameters validation.
- Shawn Willden <swillden@google.com>; additional functionality to PGPKeyRing.
- Atanas Krachev <akrachev@gmail.com>; added support for revocation signatures in OpenPGP.
- Mickael Laiking <mickael.laiking@keynectis.com>; initial cut of EAC classes.
- Tim Buku <tbuku@hotmail.com>; Initial implementation of NTRU signing and encryption.
- Bernd <rbernd@gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.
- Steing Inge Morisbak <stein.inge.morisbak@BEKK.no>; Test code for lower case Hex data in PEM headers.
- Andreas Schmid <andreas.schmid@tngtech.com>; Additional expiry time check in PGPPublicKeys.
- Phil Steitz <phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.
- Ignat Korchagin <ignat.korchagin@gmail.com>; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.
- Petar Petrov <p.petrov@bers-soft.com>; Testing and debugging of UTF-8 OpenPGP passwords.
- Daniel Fitzpatrick <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.
- Andy Neilson <Andy.Neilson@quest.com>; a further patches to deal with multiple providers and PEMReader.
- Ted Shaw <xiao.xj@gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
- Eleriseth <Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lv2EUUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.
- Kenny Root <kenny@the-b.org>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.
- Maarten Bodewes <maarten.bodewes@gmail.com>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
- Philip Clay <pilf_b@yahoo.com>; Initial implementation of J-PAKE.
- Brian Carlstrom <bdc@carlstrom.com>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
- Samuel Lidén Borell <samuel@primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder
- Sergio Demian Lerner <sergiolerner@certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.
- Tim Whittington <Tim.Whittington@orionhealth.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.
- 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.

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

Sergey Tiunov <t5555d@gmail.com>; initial cut of DVCS classes.

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

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

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

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

Matti Aarnio <matti.aarnio@methics.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, addition of NONEwithRSA to lightweight RSADigestSigner.

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

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

Mathias Herberts <Mathias.Herberts@gmail.com>; fix to inOff usage in RFC3394WrapEngine.

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

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

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

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

Axel VDB <axel-vdb@riseup.net>; initial implementation of Shacal2.

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

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

Sid Steward <sid.steward@pdfabs.com>; code improvements to ASN1Boolean.

Alex Klyubin <klyubin@google.com>; AlgorithmParameters check for EC key agreement.

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

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

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

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

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

Robert Bushman <bouncycastle@traxel.com>; Clean up of DirectKeySignature example.

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

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

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

Marco Schulze <marco@nightlabs.de>; Reported verification bug in GenericSigner.

Martin Schaef <https://github.com/martinschaef>; contributed a code-cleanup patch.

dstutz<https://github.com/dstutz>; added iteration count setters to PKCS#12 PBE mac/key generator builders.

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

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

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

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

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

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

Axel von dem Bruch <axel-vdb@riseup.net>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins <derek@ihftf.com>; Documentation fixes to X9ObjectIdentifiers.

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

IartiguePierre<https://github.com/IartiguePierre>; Fix for counter signature SID in CMSSignedData.

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

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

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

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

Michael <MSKnete@web.de>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

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

Sergio Giro <sgiro@google.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.

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

Leonard Dallot<https://github.com/dallotTazTag>; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen <j.w.janssen@bouncycastle.org>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

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

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

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

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

akwizgran<https://github.com/akwizgran>; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

- Matthias Edelhoff <Matthias.Edelhoff@cryptovision.com>; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat <lukasz.deputat@gmail.com>; Fixed bugs in TlsUtils read methods [#BJA-592].
- Justin Ludwig <https://github.com/justinludwig>; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.
- Andr e Berenguel <https://github.com/aberenguel>; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi
- Slawomir Jaranowski<https://github.com/slawekjaranowski>; Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev<https://github.com/andrey-vasilyev>; Initial implementation of GOST R 34.11-2012.
- William Glanton <wglanton77@gmail.com>; Fixed bug in Poly1305 [#BJA-620].
- jdvorak001<https://github.com/jdvorak001>; Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegele <jnaegele@grierforensics.com>; Patch for handling multiple certificates in a DANE SMIMEA entry.
- Andrew Bonventre<https://github.com/andybons>; NullPointer patch for WNaFUtil.
- The Google Security Team (Project Wycheproof) <https://github.com/google/wycheproof>; defect analysis and additional test cases for the provider.
- Gorka Irazoqui <girazoki@wpi.edu>; from Intel Security Center of Excellence <https://security-center.intel.com/>; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
- Joerg Senekowitsch <joerg.senekowitsch@veridos.com>; patch to deal with hard coded boolean in EAC ECDSAPublicKey.
- Alexandr Krivoshta <wipe@ya.ru>; N4 calculation fix to GOFB mode.
- Artem Storozhuk <storojs72@gmail.com>; N4 calculation fix to GOFB mode.
- Na Yu <na.yu@samsung.com>; Constructor patches to CMC PKIData.
- Evangelos Karatsiolis <ekaratsiolis@mtg.de>; Corrected use of explicit tagging in X.509 PolicyConstraints class.
- VivleSoren <https://github.com/VivleSoren>; additional constructor for McElieceCCA2PrivateKeyParameters.
- mtausig <https://github.com/mtausig>; JavaDoc fix for MCSEncryptedDataGenerator.
- Anders Schack-Mulligen <https://github.com/aschackmull>; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.
- Sebastian Wolfgang Roland <sebastianwolfgang.roland@stud.tu-darmstadt.de>; Initial XMSS/XMSS-MT implementation.
- didisoft <https://github.com/didisoft>; test code for PGP signature removal involving user ids.
- Mike Safonov<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.
- Artem Storozhuk <storojs72@gmail.com>; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
- Andreas Glaser <andreas.glaser@gi-de.com>; patch to recognise ANSSI curves for PKCS#10 requests.
- codeborne <https://github.com/cbxp>; patch to correct OIDs used in public key digest parameters for ECGOST-2012.
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- 4garbage <https://github.com/4garbage>; patch to allow GOST3410-94 private keys encoded as integers.

ekszz <https://github.com/ekszz> corrections to SM2 signer to include default identity value.
jminer <https://github.com/jminer> fix to Blake2b for hashes in range of 2**64-127 to 2**64.
str4d <https://github.com/str4d> initial implementation of Blake2s
Scott Woodward <scott@bit3consulting.com> performance fixes for CTRSP800DRBG.
David Strawn <https://github.com/isomarcte> fix for off by one error in SCRYPT bounds checking.
chris mccown <0xchrismccown@gmail.com> identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
ZZMarquis <https://github.com/ZZMarquis> offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
Andreas Kretschmer <https://github.com/Akretsch> NPE fix for CertTemplate.getVersion()
Armin Lunkeit, Michael Tautenhahn <> identification of M-R test issue on higher certainty values in RSA key pair generation.
Vincent Breitmoser <https://github.com/Valodim> fix to ignore unnecessary checksum calculator on PGP secret key encryption.
Adam Vartanian <https://github.com/flooey> use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().
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Paul Schaub <https://github.com/vanitasvitae> bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
Nick of Nexsar <https://github.com/nros> update to OpenPGP package to handle a broader range of EC curves.
catbref <https://github.com/catbref> sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
gerlion <https://github.com/gerlion> detection of concurrency issue with pre-1.60 EC math library.
fgrieu <fgrieu@gmail.com> identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.
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Andreas Gadermaier <up.gadermaier@gmail.com> initial version of Argon2 PBKDF algorithm.
Tony Washer <tony.washer@yahoo.co.uk> 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.
Vincent Bouckaert <https://github.com/veebee> initial version of RFC 4998 ASN.1 classes.
Tony Washer <https://github.com/tonywasher> ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.
Aurimas Liutikas <https://github.com/liutikas> JavaDoc patches to ReasonsMask.
Gabriel Sroka <https://github.com/gabrielsroka> corrected comments in RSA validation.
sarah-mdv <https://github.com/sarah-mdv> improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
Jesse Feinman <https://github.com/jessefeinman> performance optimisation in RSAKeyParameters.
Gilis95 <https://github.com/Gilis95> improved JSSE compatibility for setEnabledCipherSuites.
Haemin Yoo <https://github.com/yoohaemin> Javadoc fixes.
Antoine Toulme <https://github.com/atoulme> Initial implementation of EthereumIESEngine.
Golden Looly <https://github.com/looly> Patch for addition of C1C3C2 mode to SM2Engine.

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- René Korthaus<https://github.com/securitykernel>; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr<https://github.com/THausherr>; Addition generic support for CMS/TSP functions.
- Gaylor Bosson<https://github.com/Gilthoni>; Initial implementation of Blake2xs.
- gaellalire<https://github.com/gaellalire>; Patch for unprotected PGP private keys as SExpr.
- im-scooter<https://github.com/im-scooter>; Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan<https://github.com/hitchan>; Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche<https://github.com/dbusche>; Argon2 optimisations.
- Daniel Heldt<https://github.com/dheldt>; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe<https://github.com/Xor-el>; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy <https://github.com/Gsealy>; addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 <https://github.com/aphuang2013>; update to path validation in EST service for ClearPath EST.
- Kevin Herron <https://github.com/kevinherron>; Initial ChaCha20Poly1305 prototype.
- vkreml <https://github.com/svkreml>; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt <https://github.com/tobias>; Identification of 1.63 regression in ASN.1 parsing.

</body>

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1.144 jetty-servlets 9.3.27.v20190418

1.145 bson 3.0.4

1.146 snake-yaml 1.12

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1.148 swagger 1.5.0

1.149 jersey-client 2.5.1

1.150 jackson-dataformat-xml 2.9.10

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1.151 classmate 0.8.0

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1.153 bean-validation-api 2.0.1

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1.154 httpcomponents-client 4.5.7

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1.157 javax-inject 1

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1.158 grpc-core 1.9.0

1.159 junixsocket-native-common 2.0.4

1.160 bson4jackson 2.7.0

1.161 jetty-io 9.3.27.v20190418

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1.162 jboss-logging 3.1.1

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1.163 jetty-util 9.3.27.v20190418

1.164 jackson-annotations 2.10.0

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1.165 commons-codec 1.12

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1.166 slf4j 1.7.26

1.166.1 Available under license :

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1" />
```

```
<title>SLF4J License</title>
```

```
<link rel="stylesheet" type="text/css" media="screen" href="css/site.css" />
```

```
</head>
```

```
<body>
```

```
<script type="text/javascript">prefix=";</script>
```

```
<script src="templates/header.js" type="text/javascript"></script>
<div id="left">
  <script src="templates/left.js" type="text/javascript"></script>
</div>
<div id="right">
  <script src="templates/right.js" type="text/javascript"></script>
</div>
```

```
<div id="content">
```

```
<h1>Licensing terms for SLF4J</h1>
```

```
<p>SLF4J source code and binaries are distributed under the
MIT license.
</p>
```

```
<div class="source">
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```

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```
</div>
```

```
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`<script src="templates/footer.js" type="text/javascript"></script>`

`</div>`

`</body>`

`</html>`

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1.167 jersey 2.5.1

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 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1033222209_1591277573.73/0/kumuluzee-jax-rs-jersey-2-5-1-sources-
jar/com/kumuluz/ee/jaxrs/JaxRsComponent.java
```

1.168 commons-text 1.6

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1.169 jcommander 1.48

1.170 jbcrypt 0.4

1.171 websocket-client 9.3.27.v20190418

1.172 jaeger-core 0.23.0

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1.173 swagger-jaxrs 1.5.0

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1018976916_1591387966.4/0/swagger-jaxrs-1-5-0-sources-jar/io/swagger/jaxrs/Reader.java
* /opt/ws_local/PERMITS_SQL/1018976916_1591387966.4/0/swagger-jaxrs-1-5-0-sources-jar/io/swagger/jaxrs/config/ReaderListener.java
* /opt/ws_local/PERMITS_SQL/1018976916_1591387966.4/0/swagger-jaxrs-1-5-0-sources-jar/io/swagger/jaxrs/json/JacksonJsonProvider.java

1.174 checker-compat-qual 2.0.0

1.175 native-lib-loader 2.0.2

1.176 args4j 2.0.28

1.177 metrics 2.2.0

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1.178 mongodb-driver 3.0.4

1.179 asm-all-repackaged 2.2.0

1.180 javax-annotation-api 1.2

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