



# QAD Third-Party Software License Document

## QAD Adaptive ERP 2020.1 September 2020

QAD incorporates multiple technologies from third-party software vendors. These technologies are included with the product and are transparent to the user. They are listed in this document to give credit to the vendors and open-source projects that created them.

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## Change Summary

The following table summarizes significant differences between this document and the previous version.

Date	Description
September 2020 (QAD Adaptive ERP 2020.1)	Added information for Aircompressor; Apache Arrow; Apache Cassandra; Apache HTrace; Apache ORC; Apache Taglibs; FlatBuffers; High Performance Primitive Collections for Java (HPPC); Jackson Annotations; Java Foreign Function Interface; Java Native Runtime; Java Persistence API; JCIP Annotations; jOOQ; JSON Smart and Fast Parser; Metrics Core; Microsoft JDBC Driver for SQL Server; Nimbus JOSE+JWT; OkHttp; Okio; Project Lombok; Zstd JNI
March 2020 (QAD Adaptive ERP 2020)	Added information for ANTLR; Apache Calcite; Apache Commons Pool; Apache Derby; Apache Kafka; Apache Spark Hive Beeline; Apache Thrift; ASM; DataNucleus AccessPlatform; Eigenbase Properties; JavaEWAH; Javolution; JCommander; Jodd Core; OpenCSV; Snappy in Java; Spring Kafka; Spring Security OAuth2; StringTemplate; Super CSV; WalkMe
September 2019 (QAD Adaptive ERP 2019)	Added information for Apache Commons Crypto; Apache Commons CSV; Apache Commons Logging; Apache Commons Math; Apache Commons Net; Apache Geronimo; Apache Jakarta Oro; Apache Santuario; Apache Spark Thriftserver; Apache Tomcat; Apache XBean; Apache Xerces2; Apache XMLBeans; Apache XML Graphics Common; Apache ZooKeeper; BeanShell; Castor; Chill; ClassMate; Compress LZF; Curves API; Eclipse Compiler for Java (ECJ); Eclipse MDT XSD; Enterprise Security API (ESAPI); FindBugs; GAX (Google API eXtensions) for Java; Google API Client Library for Java; Google Cloud Common Protos for Java; Google Cloud Firestore; Google OAuth Library for Java; Hibernate Validator; Jasper Reports Libraries; Java API for RESTful Web Services; Java Bean Validation API; JavaMail API; JavaMail API JAR; JavaServer Pages API; JavaServer Pages Standard Tag Library (JSTL); Java Servlet API; Javassist; Javax Annotation API; Javax Batch API; Javax Inject; Javax JMS API; JAXB API; Jaxen XPath Library; JBoss Logging; JDOM; JetS3t; Jettison; Jetty; JFreeChart; JGroups; JLine; Joda Convert; Joda Time; JSON; JSR166e; Kryo Shaded; Leveldbjni All; Log4jdbc-log4j2; Logi Platform Services; MapStruct; MinLog; Mokito; MX4J; MySQLConnector Java; NekoHTML; Not Yet Commons SSL; Objenesis; OpenEdge; OpenSAML 2; osgi-resource-locator; OWASP Java HTML Sanitizer; Paranamer; Proto Google Cloud PubSub; Protocol Buffers [Core]; Py4J; Pyrolite; Reflections; Sardine; SLF4J Log4j; SnakeYAML; Snappy Java; Spark Cassandra Connector; Spring Data Commons Core; Spring Data JPA; Spring Framework Mobile; Spring Integration Kafka; Spring Plugin Core; Spring Retry; StAX API; Spring TestContext Framework; Stream Library; Swagger Annotations; Swagger Models; ThreeTen Backport; Univocity Parsers; Xalan-Java Serializer; xmlenc Library; XZ for Java; ZXing
March 2019 (Channel Islands 2019)	Added information for APA Web Content Reverse Proxy; APA Web Content Rewriter; Apache log4j; ApacheDS Protocol Kerberos Codec; Jackson-core; java-XMLBuilder; Jersey -RESTful Web Services; JWT; json4s; JUnit; Rhino; Spring Security SAML2 Core; Velocity; Woodstox WSTX ASL; XOM
September 2018 (Channel Islands: San Miguel 2)	Added information for ANTLR 4 Runtime; AOP Alliance; AOP Alliance Version 1.0 repackaged AS A Module; Apache Avro; Apache Batik; Apache Commons BeanUtils; Apache Commons BeanUtils Core; Apache Commons Chain; Apache Commons Cli; Apache Commons Compress; Apache Commons Configuration; Apache Commons Digester; Apache Commons FileUpload; Apache Curator; Apache Directory LDAP API; Apache Directory Server i18n; Apache Hadoop; Apache HttpClient; Apache HttpCore; Apache Ivy; Apache Parquet; Apache POI; API Common; Atomikos Transaction Manager; backport-util-concurrent; Bouncy Castle; Buddy; C3p0; Dropwizard Metrics; EMF Ecore; Error Prone Annotations; Firebase Admin; GlassFish HK2; Google Auth Library for Java; Google Auto; Google Cloud APIs and Libraries; Google HTTP Client Library for Java; gRPC Remote Procedure Calls; gson; hamcrest-core; Hamcrest-library; HikariCP; Java; HtmlCleaner; HTrace core; ICU4J; iText; Jackson; Jackson Module Paranamer; Jackson Module Scala; Janino; JavaBeans Activation Framework; LZ4; Netty; OpenCensus; OWASP AntiSamy; Roaring Bitmap; Scala; Spring Boot; SpringFox; Yetus Project

<b>Date</b>	<b>Description</b>
March 2018 (Channel Islands: San Miguel 1)	Added information for Apache Commons Codec, Apache Commons Collections, Apache Commons DBCP2, Apache Commons Lang, JasperReports, Kibana, Logstash, SLF4J, Spring Data MongoDB, Spring Integration, Thoughtworks XStream.
September 2017 (Channel Islands: Santa Rosa 2)	Added information for Elasticsearch.
March 2017 (Channel Islands: Santa Rosa 1)	Added information for Angularartics and Google Material Icons.
September 2016 (Channel Islands: Santa Cruz 2)	Added information for Apache ActiveMQ Artemis, Cordova, Font Awesome, jQuery, ngCordova, Swiper, and Underscore.js.
	Removed information for ExtJS.
March 2016 (Channel Islands: Santa Cruz 1)	Added information for Apache Tika and Ext JS.
September 2015 (Channel Islands: Anacapa)	Initial publication

## Third-Party Software Products

The following entries describe products that may be included in your QAD software package.

### Aircompressor

**Vendor:** Airlift

**Vendor Web Site:** <https://github.com/airlift/aircompressor>

**Item Description:** A port of Snappy, LZO, LZ4, and Zstandard to Java.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

### AngularJS

**Vendor:** Google

**Vendor Web Site:** <https://angularjs.org/>

**Item Description:** AngularJS (commonly referred to as “Angular”) is an open-source web application framework maintained by Google and by a community of individual developers and corporations to address many of the challenges encountered in developing single-page applications. It aims to simplify both the development and the testing of such applications by providing a framework for client-side model–view–controller (MVC) and model–view–viewmodel (MVVM) architectures, along with components commonly used in rich Internet applications. The AngularJS library works by first reading the HTML page, which has embedded into it additional custom tag attributes. Angular interprets those attributes as directives to bind input or output parts of the page to a model that is represented by standard JavaScript variables. The values of those JavaScript variables can be manually set within the code, or retrieved from static or dynamic JSON resources.

**License Web Site:** <https://opensource.org/licenses/MIT>

**License:** See “The MIT License (MIT)” on page 130.

### Angularartics

**Vendor:** Angularartics

**Vendor Web Site:** <https://github.com/angularartics>

**Item Description:** Simplifies application analytics for angularJS single-page applications.

**License Web Site:** <https://github.com/angularartics/angularartics/blob/master/LICENSE>

**License:** See “The MIT License (MIT)” on page 130.

### ANTLR

**Vendor:** ANTLR

**Vendor Web Site:** <http://www.antlr3.org/>



**Item Description:** ANother Tool for Language Recognition is a language tool that provides a framework for constructing recognizers, interpreters, compilers, and translators from grammatical descriptions containing actions in a variety of target languages. ANTLR provides support for tree construction, tree walking, translation, error recovery, and error reporting.

**License Web Site:** <http://www.antlr.org/license.html>

**License:** See “BSD License” on page 76.

## ANTLR 4 Runtime

**Vendor:** ANTLR

**Vendor Web Site:** <http://www.antlr.org/index.html>

**Item Description:** ANother Tool for Language Recognition is a parser generator for reading, processing, executing, or translating structured text or binary files.

**License Web Site:** <http://www.antlr.org/license.html>

**License:** See “BSD License” on page 76.

## AOP Alliance

**Vendor:** AOP Alliance

**Vendor Web Site:** <http://aopalliance.sourceforge.net/>

**Item Description:** The AOP Alliance project is a joint open-source project between several software engineering people who are interested in AOP and Java.

**License Web Site:** <http://aopalliance.sourceforge.net/>

**License:** All the source code provided by AOP Alliance is Public Domain.

## AOP Alliance Version 1.0 repackaged AS A Module

**Vendor:** GlassFish

**Vendor Web Site:** <https://javaee.github.io/glassfish/>

**Item Description:** AOP Alliance Version 1.0 Repackaged AS A Module

**License Web Site:** <https://javaee.github.io/glassfish/LICENSE>

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## APA Web Content Reverse Proxy

**Vendor:** Apache Foundation

**Vendor Web Site:** <https://portals.apache.org/applications/>

**Item Description:** A servlet/portlet application framework dedicated to the development of reverse proxying, web content rewriting, and IFrame-based web content.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>



**License:** See “Apache License v2.0” on page 73.

## APA Web Content Rewriter

**Vendor:** Apache Foundation

**Vendor Web Site:** <https://portals.apache.org/applications/>

**Item Description:** A servlet/portlet application framework dedicated to the development of reverse proxying, web content rewriting, and IFrame-based web content.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Apache ActiveMQ Artemis

**Vendor:** Apache

**Vendor Web Site:** <https://activemq.apache.org/components/artemis/>

**Item Description:** High-performance messaging for highly scalable microservices.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Arrow

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://arrow.apache.org/>

**Item Description:** Apache Arrow is a cross-language development platform for in-memory analytics.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Apache Avro

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://avro.apache.org/>

**Item Description:** Apache Avro command line tools and utilities are a data serialization system.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Apache Batik SVG Toolkit

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://xmlgraphics.apache.org/batik/>

**Item Description:** Java-based toolkit for applications or applets that want to use images in the Scalable Vector Graphics (SVG) format for various purposes, such as display, generation or manipulation.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Apache Calcite

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://calcite.apache.org/>

**Item Description:** Apache Calcite is a dynamic data management framework. It contains many of the pieces that comprise a typical database management system, but omits some key functions: storage of data, algorithms to process data, and a repository for storing metadata. Calcite intentionally stays out of the business of storing and processing data. This makes it an excellent choice for mediating between applications and one or more data storage locations and data processing engines.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Apache Cassandra

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://cassandra.apache.org/>

**Item Description:** Apache Cassandra is a free and open-source, distributed, wide column store, NoSQL database management system designed to handle large amounts of data across many commodity servers, providing high availability with no single point of failure.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Apache Commons is an Apache project focused on all aspects of reusable Java components.

The Apache Commons project is composed of three parts:

- The Commons Proper - A repository of reusable Java components.
- The Commons Sandbox - A workspace for Java component development.
- The Commons Dormant - A repository of components that are currently inactive.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons BeanUtils

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Provides wrappers for using JavaBeans.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons BeanUtils Core

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Provides wrappers for using JavaBeans

**License Web Site:** <http://commons.apache.org/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Chain

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** An implementation of the “Gang of Four” Chain of Responsibility pattern.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Cli

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Apache Commons CLI library provides an API for parsing command line options passed to programs. It is also able to print help messages detailing the options available for a command line tool.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Codec

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://commons.apache.org/proper/commons-codec/>

**Item Description:** Apache Commons Codec software provides implementations of common encoders and decoders such as Base64, Hex, Phonetic, and URLs.



**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Collections

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Apache Commons Collections provides interfaces, implementations and utilities for collections handling.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Compress

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** The Apache Commons Compress library defines an API for working with ar, cpio, Unix dump, tar, zip, gzip, XZ, Pack200, bzip2, 7z, arj, lzma, snappy, DEFLATE, lz4, Brotli and Z files.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Configuration

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Tools to assist in the reading of configuration/preferences files in various formats.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Crypto

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/proper/commons-crypto/>

**Item Description:** Apache Commons Crypto is a cryptographic library optimized with AES-NI (Advanced Encryption Standard New Instructions). It provides Java API for both cipher level and Java stream level. Developers can use it to implement high performance AES encryption/decryption with the minimum code and effort. Crypto does not implement the cryptographic algorithm such as AES directly. It wraps to OpenSSL or JCE, which implement the algorithms

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons CSV

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Commons CSV reads and writes files in variations of the Comma Separated Value (CSV) format.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons DBCP2

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** Apache Commons Project - DBCP2 is a database connection pooling services.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Digester

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** The Digester package lets you configure an XML to Java object mapping module, which triggers certain actions, called rules, whenever a particular pattern of nested XML elements is recognized

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons FileUpload

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://commons.apache.org/>

**Item Description:** The Commons FileUpload package makes it easy to add robust, high-performance, file upload capability to your servlets and web applications.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Lang

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://commons.apache.org/proper/commons-lang/>



**Item Description:** The standard Java libraries fail to provide enough methods for manipulation of its core classes. Apache Commons Lang provides these extra methods.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Logging

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://commons.apache.org>

**Item Description:** Provides support for logging.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Math

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://commons.apache.org/proper/commons-math/index.html>

**Item Description:** Commons Math is a library of lightweight, self-contained mathematics and statistics components addressing the most common problems not available in the Java programming language or Commons Lang.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Net

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://mvnrepository.com/artifact/commons-net/commons-net>

**Item Description:** Apache Commons Net library contains a collection of network utilities and protocol implementations. Supported protocols include: Echo, Finger, FTP, NNTP, NTP, POP3(S), SMTP(S), Telnet, Whois

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Commons Pool

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://commons.apache.org/proper/commons-pool/>

**Item Description:** The Apache Commons Pool open source software library provides an object-pooling API and a number of object pool implementations.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.



## Apache Curator

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://curator.apache.org/>

**Item Description:** Apache Curator is a Java/JVM client library for Apache ZooKeeper, a distributed coordination service. It includes a high-level API framework and utilities to make using Apache ZooKeeper much easier and more reliable. It also includes recipes for common use cases and extensions, such as service discovery and a Java 8 asynchronous DSL.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Derby

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://db.apache.org/derby/>

**Item Description:** Apache Derby, an Apache DB subproject, is an open source relational database implemented entirely in Java and available under the Apache License, Version 2.0.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Directory LDAP API

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://directory.apache.org/api/>

**Item Description:** The Apache Directory LDAP API is an on-going effort to provide an enhanced LDAP API, as a replacement for JNDI and the existing LDAP API (jLDAP and Mozilla LDAP API). This is a “schema aware” API with some convenient ways to access all types of LDAP servers, not only Apache DS but any LDAP server.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Directory Server i18n

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://directory.apache.org/>

**Item Description:** Extensible and embeddable Java-based directory server, certified LDAPv3 compatible, supports Kerberos 5 and the Change Password Protocol. Introduces triggers, stored procedures, queues and views to internationalization of errors and other messages.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Geronimo

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://geronimo.apache.org>

**Item Description:** Apache Geronimo is an open source server runtime that integrates the best open source projects to create Java/OSGi server runtimes that meet the needs of enterprise developers and system administrators.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Hadoop

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://hadoop.apache.org/>

**Item Description:** The Apache Hadoop software library is a framework that allows for the distributed processing of large data sets across clusters of computers using simple programming models.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache HTrace

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://incubator.apache.org/projects/htrace.html/>

**Item Description:** Apache HTrace is a tracing framework intended for use with distributed systems written in Java.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Apache HttpClient

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://hc.apache.org/httpcomponents-client-4.5.x/index.html>

**Item Description:** The Hyper-Text Transfer Protocol (HTTP) is perhaps the most significant protocol used on the Internet today. Web services, network-enabled appliances, and the growth of network computing continue to expand the role of the HTTP protocol beyond user-driven web browsers, while increasing the number of applications that require HTTP support.

Although the `java.net` package provides basic functionality for accessing resources via HTTP, it does not provide the full flexibility or functionality needed by many applications. The Jakarta Commons HttpClient component seeks to fill this void by providing an efficient, up-to-date, and feature-rich package implementing the client side of the most recent HTTP standards and recommendations.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.



## Apache HttpCore

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://hc.apache.org/httpcomponents-core-4.4.x/index.html>

**Item Description:** HttpCore is a set of low-level HTTP transport components that can be used to build custom client and server side HTTP services with a minimal footprint. HttpCore supports two I/O models: blocking I/O model based on the classic Java I/O, and non-blocking, event-driven I/O model based on Java NIO.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Ivy

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://ant.apache.org/ivy/index.html>

**Item Description:** Apache Ivy is a dependency manager focusing on flexibility and simplicity.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Jakarta Oro

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://jakarta.apache.org/oro/>

**Item Description:** Apache Jakarta Oro provides classes for regular expressions

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Kafka

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://kafka.apache.org/>

**Item Description:** Apache Kafka is used for building real-time data pipelines and streaming apps.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache log4j

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://logging.apache.org/log4j/1.2/>

**Item Description:** A logging library for Java.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Lucene

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://lucene.apache.org/>

**Item Description:** Apache Lucene is a free and open-source information retrieval software library, originally written in Java by Doug Cutting. It is supported by the Apache Software Foundation and is released under the Apache Software License.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache ORC

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://orc.apache.org/>

**Item Description:** The core reader and writer for ORC files. Uses the vectorized column batch for the in memory representation.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## Apache Parquet

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://parquet.apache.org/>

**Item Description:** Apache Parquet is a columnar storage format available to any project in the Hadoop ecosystem, regardless of the choice of data processing framework, data model or programming language. It is similar to the other columnar-storage file formats available in Hadoop namely RCFile and ORC.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache POI

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://poi.apache.org/>

**Item Description:** Apache POI is an API that allows programmers to create, modify, and display MS Office files using Java programs. It is an open source library developed and distributed by Apache Software Foundation to design or modify Microsoft Office files using Java program.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.



## Apache Santuario

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://poi.apache.org/>

**Item Description:** The Apache Santuario™ project is aimed at providing implementation of the primary security standards for XML:

- XML-Signature Syntax and Processing
- XML Encryption Syntax and Processing.

Two libraries are currently available.

- Apache XML Security for Java: This library includes the standard JSR-105 (Java XML Digital Signature) API, a mature DOM-based implementation of both XML Signature and XML Encryption, as well as a more recent StAX-based (streaming) XML Signature and XML Encryption implementation.
- Apache XML Security for C++: This library includes a mature Digital Signature and Encryption implementation using a proprietary C++ API on top of the Xerces-C XML Parser's DOM API. It includes a pluggable cryptographic layer, but support for alternatives to OpenSSL are less complete and less mature.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Spark

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://spark.apache.org/>

**Item Description:** Apache Spark is a fast and general engine for large-scale data processing.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Spark Hive Beeline

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://spark.apache.org/>

**Item Description:** Apache Hive is a data warehouse infrastructure built on top of Hadoop for providing data summarization, query, and analysis. HiveQL queries are executed using Hadoop MapReduce, but Hive also can use other distributed computation engines like Apache Spark and Apache Tez.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Spark Thriftserver

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://spark.apache.org/>



**Item Description:** Apache Spark is a fast and general engine for large-scale data processing.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Taglibs

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://tomcat.apache.org/taglibs/>

**Item Description:** This project is an open source repository for JSP(tm) Tag Libraries. In particular, Apache Taglibs hosts the Apache Standard Taglib, an implementation of the JSP Standard Tag Library (JSTL) specification.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Thrift

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://thrift.apache.org/>

**Item Description:** The Apache Thrift software framework, for scalable cross-language services development, combines a software stack with a code generation engine to build services that work efficiently and seamlessly between C++, Java, Python, PHP, Ruby, Erlang, Perl, Haskell, C#, Cocoa, JavaScript, Node.js, Smalltalk, OCaml and Delphi and other languages.

**License Web Site:** <https://thrift.apache.org/>

**License:** See “Apache License v2.0” on page 73.

## Apache Tika

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://tika.apache.org/>

**Item Description:** Apache Tika is a content detection and analysis framework, written in Java. It detects and extracts metadata and text from more than a thousand different file types, provides a Java library, and has server and command-line editions suitable for use from other programming languages.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Tomcat

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://tomcat.apache.org/index.html>

**Item Description:** The Apache Tomcat software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language, and Java WebSocket technologies. The Java Servlet, JavaServer Pages, Java Expression Language, and Java WebSocket specifications are developed under the Java Community Process.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Tuscany

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://tuscany.apache.org/home.html>

**Item Description:** Apache Tuscany provides a service-oriented architecture (SOA) and the infrastructure for easily developing and running applications using a service-oriented approach. This lightweight runtime is designed to be embedded in, or provisioned to, a number of different host environments.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Velocity

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://velocity.apache.org/contact.html>

**Item Description:** Velocity is a Java-based template engine. It permits anyone to use a simple yet powerful template language to reference objects defined in Java code.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache XBean

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://www.openhub.net/p/xbean>

**Item Description:** Apache XBean is repackaged and shaded asm 5.x jars.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache Xerces2

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://xerces.apache.org/>

**Item Description:** The Apache Xerces2-J Project is a collection of sub-projects used for the creation and maintenance of XML parsers and related software components.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>



**License:** See “Apache License v2.0” on page 73.

## Apache XMLBeans

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://xmlbeans.apache.org/>

**Item Description:** Apache XMLBeans is a technology for accessing XML by binding it to Java types. XMLBeans provides several ways to get at the XML.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache XML Graphics Commons

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <http://xmlgraphics.apache.org/commons/>

**Item Description:** Apache XML Graphics Commons is a library that consists of several reusable components used by Apache Batik and Apache FOP. Many of these components can easily be used separately outside the domains of SVG and XSL-FO.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Apache ZooKeeper

**Vendor:** Apache Foundation

**Vendor Web Site:** <https://zookeeper.apache.org/>

**Item Description:** ZooKeeper is a centralized service for maintaining configuration information, naming, providing distributed synchronization, and providing group services. All of these kinds of services are used in some form or another by distributed applications.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## ApacheDS Protocol Kerberos Codec

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://directory.apache.org/apacheds/>

**Item Description:** Kerberos is a computer network authentication protocol that provides a secure single sign-on (SSO), based on a trusted third-party mutual authentication service.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.



## API Common

**Vendor:** Google

**Vendor Web Site:** <https://github.com/googleapis>

**Item Description:** Common utilities for Google APIs in Java.

**License Web Site:** <https://github.com/googleapis/api-common-java/blob/master/LICENSE>

**License:** See “Google License” on page 120.

## ASM

**Vendor:** OW2 - INRIA

**Vendor Web Site:** <https://asm.ow2.io/>

**Item Description:** ASM is an all purpose Java bytecode manipulation and analysis framework.

**License Web Site:** <https://asm.ow2.io/license.html>

**License:** See “BSD License” on page 76.

## AspectJ

**Vendor:** Eclipse

**Vendor Web Site:** <https://eclipse.org/org/>

**Item Description:** Aspect-oriented extensions to the Java programming language

**License Web Site:** <https://eclipse.org/org/documents/epl-v10.php>

**License:** See “Eclipse Public License – v1.0” on page 93.

## Atomikos Transaction Manager (TransactionsEssentials)

**Vendor:** Atomikos

**Vendor Web Site:** <https://www.atomikos.com>

**Item Description:** TransactionsEssentials is open source transaction management with JTA/XA and connection pooling for self-contained applications outside of the application server.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## backport-util-concurrent

**Vendor:** Emory University Distributed Computing Laboratory

**Vendor Web Site:** <http://backport-jsr166.sourceforge.net/>

**Item Description:** This package is the backport of java.util.concurrent API, introduced in Java 5.0 and further refined in Java 6.0, to older Java platforms. The backport is based on public-domain sources from the JSR 166 CVS repository, the dl.util.concurrent package, and the Doug Lea’s collections package.

**License Web Site:** <https://creativecommons.org/licenses/publicdomain/>

**License:** See “Creative Commons License” on page 88.

## BeanShell

**Vendor:** BeanShell

**Vendor Web Site:** <http://www.beanshell.org/home.html>

**Item Description:** BeanShell is a small, free, embeddable Java source interpreter with object scripting language features, written in Java. BeanShell executes standard Java statements and expressions but also extends Java into the scripting domain with common scripting language conventions and syntax. BeanShell is a natural scripting language for Java.

**License Web Site:** <https://opensource.org/licenses/SPL-1.0> or <https://www.gnu.org/licenses/old-licenses/lgpl-2.1.en.html>

**License:** See “Sun Public License, Version 1.0 (SPL-1.0)” on page 145 and “GNU LESSER GENERAL PUBLIC LICENSE” on page 114.

## Bouncy Castle

**Vendor:** Legion of the Bouncy Castle Inc

**Vendor Web Site:** <http://bouncycastle.org/>

**Item Description:** The Bouncy Castle Crypto package is a Java implementation of cryptographic algorithms. Bouncy Castle is a collection of APIs used in cryptography. It includes APIs for both the Java and the C# programming languages. The APIs are supported by a registered Australian charitable organization: Legion of the Bouncy Castle Inc. Bouncy Castle is Australian in origin and therefore American restrictions on the export of cryptography from the United States do not apply to it.

**License Web Site:** <http://www.bouncycastle.org/licence.html>

**License:** See “The Legion of the Bouncy Castle” on page 121.

## Buddy

**Vendor:** FunCool

**Vendor Web Site:** <https://funcool.github.io/>

**Item Description:** buddy is a complete security library for Clojure. With support for:

- authentication, authorization, and access rules (ring/compojure extensions)
- secure hash functions (digest)
- password hashing algorithms (bcrypt, pbkdf2, scrypt)
- message/text signing (high level interface)
- signature and authentication (mac and digital signature)
- encryption (block, stream ciphers, nonces, salts)
- key derivation functions (kdf)

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.



## C3p0

**Vendor:** Steve Waldman

**Vendor Web Site:** <https://www.mchange.com/projects/c3p0/>

**Item Description:** c3p0 is a Java library for JDBC drivers with JNDI-bindable DataSources, including DataSources that implement Connection and Statement Pooling, as described by the jdbc3 spec and jdbc2 std extension.

**License Web Site:** <http://www.gnu.org/licenses/lgpl-2.1.html>, or <http://www.eclipse.org/legal/epl-v10.html>

**License:** See “GNU LESSER GENERAL PUBLIC LICENSE” on page 114 or “Eclipse Public License – v1.0” on page 93.

## Castor

**Vendor:** Codehaus

**Vendor Web Site:** <https://mvnrepository.com/artifact/org.codehaus.castor/castor>

**Item Description:** Castor is an open source data binding framework for Java. It is the shortest path between Java objects, XML documents, and relational tables.

**License Web Site:** <https://castor-data-binding.github.io/castor/about/licenses.html>

**License:** See “Apache License v2.0” on page 73.

## Chill

**Vendor:** Twitter

**Vendor Web Site:** <https://twitter.github.io>

**Item Description:** Extensions for the Kryo serialization library including serializers and a set of classes to ease configuration of Kryo in systems like Hadoop, Storm, Akka, etc.

**License Web Site:** <https://github.com/twitter/chill/blob/develop/LICENSE>

**License:** See “Apache License v2.0” on page 73.

## ClassMate

**Vendor:** GitHub

**Vendor Web Site:** <https://github.com/FasterXML/java-classmate>

**Item Description:** This is a required runtime dependency of Hibernate Validator 5.2.4. ClassMate is a zero-dependency Java library for accurately introspecting type information, including reliable resolution of generic type declarations for both classes (types) and members (fields, methods, and constructors).

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Compress LZF

**Vendor:** Marc Lehmann

**Vendor Web Site:** <http://oldhome.schmorp.de/marc/liblzf.html>

**Item Description:** Compress LZF is a compression codec for LZF encoding, particularly for encoding/decoding, with reasonable compression. The compressor is basic Lempel-Ziv codec, without Huffman (deflate/gzip) or statistical post-encoding. See <http://oldhome.schmorp.de/marc/liblzf.html> for more on the original LZF package.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Curves API

**Vendor:** Dustin Spicuzza (virtuald)

**Vendor Web Site:** <https://github.com/virtuald>

**Item Description:** Implementation of various mathematical curves that define themselves over a set of control points. The API is written in Java. The curves supported are: Bezier, B-Spline, Cardinal Spline, Catmull-Rom Spline, Lagrange, Natural Cubic Spline, and NURBS.

**License Web Site:** <https://github.com/virtuald/curvesapi/blob/master/license.txt>

**License:** See “BSD License” on page 76.

## DataNucleus AccessPlatform

**Vendor:** DataNucleus

**Vendor Web Site:** <http://datanucleus.org/>

**Item Description:** DataNucleus provides access to industry leading RDBMS, map stores such as Cassandra and HBase, the Neo4j graph store, spreadsheets in Excel or OpenDocument formats, JSON formatted Amazon and Google Storage options, the popular MongoDB JSON-like document store, as well as ubiquitous LDAP and others.

**License Web Site:** <http://datanucleus.org/documentation/license.html>

**License:** See “Apache License v2.0” on page 73.

## Dropwizard Metrics

**Vendor:** Dropwizard Metrics

**Vendor Web Site:** <https://metrics.dropwizard.io/4.0.0/>

**Item Description:** Dropwizard Metrics provides a powerful toolkit of ways to measure the behavior of critical components in your production environment. With modules for common libraries like Jetty, Logback, Log4j, Apache HttpClient, Ehcache, JDBI, Jersey and reporting backends like Graphite, Metrics provides full-stack visibility.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.



## Eclipse Compiler for Java (ECJ)

**Vendor:** Eclipse

**Vendor Web Site:** <http://www.eclipse.org/jdt/>

**Item Description:** Eclipse JDT Core Batch Compiler.

**License Web Site:** <https://opensource.org/licenses/EPL-1.0>

**License:** See “Eclipse Public License – v1.0” on page 93.

## Eclipse MDT XSD

**Vendor:** Eclipse

**Vendor Web Site:** <https://www.eclipse.org/modeling/mdt/?project=xsd>,  
<https://projects.eclipse.org/projects/modeling.mdt.xsd>

**Item Description:** XSD is a library that provides an API for manipulating the components of an XML Schema as described by the W3C XML Schema specifications, as well as an API for manipulating the DOM-accessible representation of XML Schema as a series of XML documents, and for keeping these representations in agreement as schemas are modified.

**License Web Site:** <https://projects.eclipse.org/license/epl-2.0>

**License:** See “Eclipse Public License – v1.0” on page 93.

## Ehcache

**Vendor:** Ehcache

**Vendor Web Site:** <http://www.ehcache.org/>

**Item Description:** Ehcache is an open source, standards-based cache that boosts performance, offloads your database, and simplifies scalability. It's the most widely-used Java-based cache because it's robust, proven, full-featured, and integrates with other popular libraries and frameworks. Ehcache scales from in-process caching, all the way to mixed in-process/out-of-process deployments with terabyte-sized caches.

**License Web Site:** <http://www.ehcache.org/about/license.html>

**License:** See “Apache License v2.0” on page 73.

## Eigenbase Properties

**Vendor:** Julian Hyde

**Vendor Web Site:** <https://people.apache.org/~jhyde/>

**Item Description:** Type-safe access to Java system properties.

**License Web Site:** <https://github.com/julianhyde/eigenbase-properties/blob/master/LICENSE>

**License:** See “Apache License v2.0” on page 73.

## Elasticsearch

**Vendor:** Elasticsearch



**Vendor Web Site:** <https://www.elastic.co/>

**Item Description:** Elasticsearch is a search engine based on Lucene. It provides a distributed, multi-tenant-capable, full-text search engine with an HTTP web interface and schema-free JSON documents. Elasticsearch is developed in Java and is released as open source under the terms of the Apache License.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## EMF Ecore

**Vendor:** Eclipse

**Vendor Web Site:** <https://www.eclipse.org/modeling/emf/>

**Item Description:** The core EMF framework includes a meta model (Ecore) for describing models and runtime support for the models including change notification, persistence support with default XMI serialization, and a very efficient reflective API for manipulating EMF objects generically.

**License Web Site:** <https://www.eclipse.org/legal/epl-2.0/>

**License:** See “Eclipse Public License – v1.0” on page 93.

## Enterprise Security API (ESAPI)

**Vendor:** The OWASP Foundation

**Vendor Web Site:** <http://www.esapi.org/>,  
[https://www.owasp.org/index.php/Category:OWASP\\_Enterprise\\_Security\\_API](https://www.owasp.org/index.php/Category:OWASP_Enterprise_Security_API)

**Item Description:** The Enterprise Security API (ESAPI) project is an OWASP project to create simple, strong security controls for every web platform.

**License Web Site:** <https://creativecommons.org/licenses/by-sa/3.0/us/>  
<https://opensource.org/licenses/BSD-2-Clause>

**License:** See “BSD License” on page 76 or “Creative Commons License” on page 88.

## Error Prone Annotations

**Vendor:** Google

**Vendor Web Site:** <https://opensource.google.com/>

**Item Description:** Error Prone is Google’s Java bug detection and static analysis tool. It is integrated into the Java compiler and catches bugs at compile time. It supports plug-in checks for project-specific enforcement.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## FindBugs

**Vendor:** University of Maryland

**Vendor Web Site:** <http://findbugs.sourceforge.net/index.html>



**Item Description:** FindBugs is a program that uses static analysis to look for bugs in Java code.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>, <http://www.gnu.org/licenses/lgpl.html>

**License:** See “Apache License v2.0” on page 73 and “GNU LESSER GENERAL PUBLIC LICENSE” on page 114.

## Firestore Admin

**Vendor:** Google

**Vendor Web Site:** <https://firebase.google.com/>

**Item Description:** Push Notifications for mobile devices

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## FlatBuffers

**Vendor:** Google

**Vendor Web Site:** <https://google.github.io/flatbuffers/>

**Item Description:** FlatBuffers is an efficient cross-platform serialization library for C++, C#, C, Go, Java, Kotlin, JavaScript, Lobster, Lua, TypeScript, PHP, Python, Rust and Swift. It was originally created at Google for game development and other performance-critical applications.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Font Awesome

**Vendor:** Font Awesome/Dave Gandy

**Vendor Web Site:** <http://fontawesome.io/>

**Item Description:** An icon font toolset.

**License Web Site:** <http://fontawesome.io/license/>

**License:** See “The MIT License (MIT)” on page 130, “SIL OPEN FONT LICENSE” on page 143, and “Creative Commons License” on page 88.

## GAX (Google API EXtensions) for Java

**Vendor:** Google

**Vendor Web Site:** <https://mvnrepository.com/artifact/com.google.api/gax-grpc>

**Item Description:** Google Api eXtensions for Java

**License Web Site:** <https://mvnrepository.com/artifact/com.google.api>

**License:** See “BSD License” on page 76.



## GlassFish HK2

**Vendor:** Oracle Corporation (initial code from Sun Microsystems)

**Vendor Web Site:** <https://javaee.github.io/glassfish/>

**Item Description:** GlassFish is the reference implementation of Java EE and as such supports Enterprise JavaBeans, JPA, JavaServer Faces, JMS, RMI, JavaServer Pages, servlets, etc. This allows developers to create enterprise applications that are portable and scalable, and that integrate with legacy technologies.

**License Web Site:** <https://javaee.github.io/glassfish/LICENSE>

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81.

## Google API Client Library for Java

**Vendor:** Google

**Vendor Web Site:** <https://developers.google.com/api-client-library/java/>

**Item Description:** The Google API Client Library for Java provides functionality common to all Google APIs, for example HTTP transport, error handling, authentication, JSON parsing, media download/upload, and batching. The library includes a powerful OAuth 2.0 library with a consistent interface; lightweight, efficient XML and JSON data models that support any data schema; and support for protocol buffers.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Google Auth Library for Java

**Vendor:** Google

**Vendor Web Site:** [https://developers.google.com/api-client-library/javascript/features/authentication#top\\_of\\_page](https://developers.google.com/api-client-library/javascript/features/authentication#top_of_page)

**Item Description:** Google Auth Library For Java

**License Web Site:** <http://opensource.org/licenses/BSD-3-Clause>

**License:** See “BSD License” on page 76.

## Google Auto

**Vendor:** Google

**Vendor Web Site:** <https://opensource.google.com/projects/auto>

**Item Description:** A collection of code generators for Java. The Auto subprojects are a collection of code generators that automate those types of tasks. They create the code you would have written, but without the bugs.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Google Cloud APIs and Libraries

**Vendor:** Google

**Vendor Web Site:** <https://cloud.google.com/java/>

**Item Description:** A broad set of idiomatic Java APIs and libraries for Google Cloud Storage.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Google Cloud Common Protos for Java

**Vendor:** Google LLC

**Vendor Web Site:** <https://mvnrepository.com/artifact/com.google.api.grpc/proto-google-common-protos/1.9.0>

**Item Description:** This repository is a home for the protocol buffer types, which are common dependencies throughout the Google API ecosystem, and which are made available for use as dependencies elsewhere

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Google Cloud Firestore

**Vendor:** Google

**Vendor Web Site:** <https://cloud.google.com/firestore>

**Item Description:** Cloud Firestore is a NoSQL document database built for automatic scaling, high performance, and ease of application development. While the Cloud Firestore interface has many of the same features as traditional databases, as a NoSQL database it differs from them in the way it describes relationships between data objects.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Google HTTP Client Library for Java

**Vendor:** Google

**Vendor Web Site:** <https://github.com/googleapis/google-http-java-client>

**Item Description:** Google HTTP Client Library for Java. Functionality that works on all supported Java platforms, including Java 5 (or higher) desktop (SE) and web (EE), Android, and Google App Engine.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Google Material Icons

**Vendor:** Google



**Vendor Web Site:** <https://material.io/icons/>

**Item Description:** Icon set for use on user interfaces and web sites.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Google OAuth Library for Java

**Vendor:** Google

**Vendor Web Site:** [https://developers.google.com/api-client-library/javascript/features/authentication#top\\_of\\_page](https://developers.google.com/api-client-library/javascript/features/authentication#top_of_page)

**Item Description:** The Google OAuth Client Library for Java is designed to work with any OAuth service on the web, not just with Google APIs. The library is built on the Google HTTP Client Library for Java, and it supports Java 6 (or higher), standard (SE) and enterprise (EE), Android 4.0 (or higher), and Google App Engine.

**License Web Site:** <http://opensource.org/licenses/BSD-3-Clause>

**License:** See “BSD License” on page 76.

## gRPC Remote Procedure Calls

**Vendor:** GRPC

**Vendor Web Site:** <https://grpc.io/>

**Item Description:** gRPC is a modern, open source remote procedure call (RPC) framework that can run anywhere. It enables client and server applications to communicate transparently, and makes it easier to build connected systems.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## gson

**Vendor:** Google (unsupported)

**Vendor Web Site:** <https://opensource.google.com/> <https://github.com/google/gson>

**Item Description:** Gson is a Java library that can be used to convert Java Objects into their JSON representation. It can also be used to convert a JSON string to an equivalent Java object. Gson can work with arbitrary Java objects including pre-existing objects that you do not have source-code of.

**License Web Site:** <https://github.com/google/gson>

**License:** See “Apache License v2.0” on page 73.

## Guava Project

**Vendor:** Google

**Vendor Web Site:** <https://code.google.com/p/guava-libraries/>



**Item Description:** The Guava project contains several of Google’s core libraries that QAD relies on in our Java-based projects: collections, caching, primitives support, concurrency libraries, common annotations, string processing, I/O.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Hamcrest-core

**Vendor:** Hamcrest

**Vendor Web Site:** <http://hamcrest.org/>

**Item Description:** Hamcrest library of matcher implementations.

**License Web Site:** <http://www.opensource.org/licenses/bsd-license.php>

**License:** See “BSD License” on page 76.

## Hamcrest-library

**Vendor:** Hamcrest

**Vendor Web Site:** <https://code.google.com/p/guava-libraries/>

**Item Description:** The Guava project contains several of Google’s core libraries that QAD relies on in our Java-based projects: collections, caching, primitives support, concurrency libraries, common annotations, string processing, I/O.

**License Web Site:** <http://www.opensource.org/licenses/bsd-license.php>

**License:** See “Modified BSD License” on page 131.

## Hibernate Validator

**Vendor:** RedHat

**Vendor Web Site:** <http://hibernate.org/>

**Item Description:** JSR-349 Bean Validation v1.1 implementation from Hibernate. Bean Validation API simplifies code and standardizes constraints definition and validation error handling.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## High Performance Primitive Collections for Java (HPPC)

**Vendor:** Carrot Search Labs

**Vendor Web Site:** <http://https://labs.carrotsearch.com/hppc.html>

**Item Description:** High Performance Primitive Collections (HPPC) library provides typical data structures (lists, stacks, sets and maps) that are generated for all Java primitive types (byte, int, etc.) from a single template to conserve memory and boost performance.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>



**License:** See “Apache License v2.0” on page 73.

## HikariCP

**Vendor:** Brettwooldridge

**Vendor Web Site:** <https://brettwooldridge.github.io/HikariCP/>

**Item Description:** Fast, simple, reliable, HikariCP is a “zero-overhead,” production-ready JDBC connection pool. At roughly 130Kb, the library is very light.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## HtmlCleaner

**Vendor:** Source Forge

**Vendor Web Site:** <https://sourceforge.net/projects/htmlcleaner/>

**Item Description:** HtmlCleaner is an HTML parser written in Java. It transforms dirty HTML to well-formed XML following the same rules that most web-browsers use.

**License Web Site:** <https://sourceforge.net/directory/license:bsd/>

**License:** See “BSD License” on page 76.

## HTrace core

**Vendor:** Apache Foundation

**Vendor Web Site:** <http://incubator.apache.org/projects/htrace.html>

**Item Description:** HTrace is a tracing framework intended for use with distributed systems written in Java.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## ICU4J

**Vendor:** ICU - International Components for Unicode

**Vendor Web Site:** <http://site.icu-project.org/>

**Item Description:** International Component for Unicode for Java (ICU4J) is a mature, widely used Java library providing Unicode and Globalization support.

**License Web Site:** <http://www.unicode.org/copyright.html#License>

**License:** See “UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE” on page 168.

## iText

**Vendor:** iText



**Vendor Web Site:** <http://itextpdf.com>

**Item Description:** iText is a Java-PDF library

**License Web Site:** <https://github.com/itext/itextsharp/blob/develop/LICENSE.md> or <https://itextpdf.com/agpl>

**License:** See “GNU Affero General Public License (GNU AGPL)” on page 97.

## Jackson

**Vendor:** Jackson Module

**Vendor Web Site:** <https://github.com/FasterXML/jackson>

**Item Description:** Jackson is a suite of data-processing tools for Java (and JVM platform), including the streaming JSON parser / generator library, matching data-binding library (POJOs to and from JSON) and additional data format modules to process data encoded in Avro, BSON, CBOR, CSV, Smile, Protobuf, XML or YAML; and even the large set of data format modules to support data types of widely used data types such as Joda, Guava, PCCollections, and many more.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Jackson Annotations

**Vendor:** Jackson Module

**Vendor Web Site:** <https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-annotations>

**Item Description:** Core annotations used for value types, used by Jackson data binding package.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Jackson-core

**Vendor:** FasterXML

**Vendor Web Site:** <http://fasterxml.com/>

**Item Description:** A core part of Jackson that defines streaming API as well as basic shared abstractions. This project contains core low-level incremental “streaming” parser and generator abstractions used by Jackson Data Processor. It also includes the default implementation of handler types (parser, generator) that handle JSON format. The core abstractions are not JSON specific, although naming does contain JSON in many places, for historical reasons. Only packages that specifically contain the word `json` are JSON-specific. This package is the base on which Jackson data-binding package builds.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Jackson JSON Processor

**Vendor:** Jackson



**Vendor Web Site:** <http://wiki.fasterxml.com/JacksonHome>

**Item Description:** Jackson is a suite of data-processing tools for Java (and JVM platform), including the streaming JSON parser / generator library, matching data-binding library (POJOs to and from JSON) and additional data format modules to process data encoded in Avro, BSON, CBOR, CSV, Smile, Protobuf, XML or YAML; and even the large set of data format modules to support data types of widely used data types such as Joda, Guava and many more.

**License Web Site:** <http://wiki.fasterxml.com/JacksonLicensing>

**License:** See “Apache License v2.0” on page 73.

## Jackson Module Paranamer

**Vendor:** FastXML

**Vendor Web Site:** <http://fasterxml.com/>

**Item Description:** AnnotationIntrospectors that use Paranamer (<http://paranamer.codehaus.org>) to introspect names of constructor (and factory method) parameters.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Jackson Module Scala

**Vendor:** FastXML

**Vendor Web Site:** <https://github.com/FasterXML/jackson-module-scala>

**Item Description:** The Scala Module supports serialization and limited deserialization of Scala Case Classes, Sequences, Maps, Tuples, Options, and Enumerations.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Janino

**Vendor:** Janino

**Vendor Web Site:** <http://janino-compiler.github.io/janino/>

**Item Description:** A super-small, super-fast Java compiler.

**License Web Site:** <https://raw.githubusercontent.com/janino-compiler/janino/master/LICENSE>

**License:** See “BSD License” on page 76.

## Jasper Reports Libraries

**Vendor:** Jasper Reports

**Vendor Web Site:** <https://sourceforge.net/projects/jasperreports/>



**Item Description:** JasperReports Library is an open source business intelligence and reporting engine. It is entirely written in Java and it is able to use data coming from any kind of data source and produce documents that can be viewed, printed, or exported in a variety of document formats including HTML, PDF, Excel, OpenOffice, and Word.

**License Web Site:** <https://www.gnu.org/licenses/lgpl-3.0.en.html>

**License:** See “GNU LESSER GENERAL PUBLIC LICENSE” on page 114.

## JasperReports

**Vendor:** Jaspersoft Corporation

**Vendor Web Site:** <http://community.jaspersoft.com/project/jasperreports-library>

**Item Description:** The JasperReports Library is the world’s most popular open source reporting engine. It is written entirely in Java and it is able to use data coming from any kind of data source and produce pixel-perfect documents that can be viewed, printed, or exported in a variety of document formats including HTML, PDF, Excel, OpenOffice and Word.

**License Web Site:** <https://www.gnu.org/licenses/lgpl-3.0.en.html>

**License:** See “GNU LESSER GENERAL PUBLIC LICENSE” on page 114.

## Java

**Vendor:** Oracle

**Vendor Web Site:** <https://www.java.com/en/>

**Item Description:** Java is a general-purpose computer-programming language that is concurrent, class-based, object-oriented, and specifically designed to have as few implementation dependencies as possible.

**License Web Site:** [www.oracle.com/technetwork/java/javase/overview/bcl-havase-366864.html](http://www.oracle.com/technetwork/java/javase/overview/bcl-havase-366864.html)

**License:** See “Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX” on page 139.

## Java API for RESTful Web Services

**Vendor:** Javax

**Vendor Web Site:** <https://mvnrepository.com/artifact/javax.jms/javax.jms-api>

**Item Description:** Java API for RESTful Web Services

**License Web Site:** <https://www.gnu.org/licenses/old-licenses/>

**License:** See “Common Development and Distribution License (CDDL-1.0)” on page 77 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## Java Bean Validation API

**Vendor:** Oracle

**Vendor Web Site:** <http://oracle.com/>



**Item Description:** Bean Validation API simplifies code and standardizes constraints definition and validation error handling.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Java Foreign Function Interface

**Vendor:** Wayne Meissner

**Vendor Web Site:** <https://github.com/jnr/jffi>

**Item Description:** Define a Foreign Function Interface that can bind native functions, such as those found in shared libraries and operating-system kernels, to Java methods, and also directly manage blocks of native memory.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Java Native Runtime

**Vendor:** Charles Oliver Nutter

**Vendor Web Site:** <https://github.com/jnr>

**Item Description:** A Java API for binding native libraries and native memory.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Java Persistence API

**Vendor:** Oracle

**Vendor Web Site:** <http://oracle.com/>

**Item Description:** The Java Persistence API provides Java developers with an object/relational mapping facility for managing relational data in Java applications. Java Persistence consists of four areas:

- The Java Persistence API
- The query language
- The Java Persistence Criteria API
- Object/relational mapping metadata

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## JavaBeans Activation Framework

**Vendor:** Javax

**Vendor Web Site:** <http://java.sun.com/products/javabeans/jaf/index.jsp>

**Item Description:** The JavaBeans Activation Framework is used by the JavaMail API to manage MIME data.

**License Web Site:** <https://glassfish.dev.java.net/public/CDDLv1.0.html>

**License:** See “Common Development and Distribution License (CDDL-1.0)” on page 77.

## java-XMLBuilder

**Vendor:** James Murty

**Vendor Web Site:** <http://james.murty.co/about/>

**Item Description:** XML Builder is a utility that allows simple XML documents to be constructed using relatively sparse Java code.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## JavaEWAH

**Vendor:** Danie Lemire

**Vendor Web Site:** <http://code.google.com/p/javaewah/>

**Item Description:** JavaEWAH is a word-aligned compressed variant of the Java bitset class. It uses a 64-bit run-length encoding (RLE) compression scheme. It trades-off some compression for better processing speed. It also has a 32-bit version which compresses better, but is not as fast.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## JavaMail API

**Vendor:** Javax

**Vendor Web Site:** <https://mvnrepository.com/artifact/javax.jms/javax.jms-api>

**Item Description:** The JavaMail API provides a platform-independent and protocol-independent framework to build mail and messaging applications.

**License Web Site:** <https://www.gnu.org/licenses/old-licenses/gpl-2.0.en.html>, and <https://www.gnu.org/licenses/old-licenses/fdl-1.1.en.html>, <https://opensource.org/licenses/CDDL-1.0>

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## JavaMail API JAR

**Vendor:** Oracle

**Vendor Web Site:** <https://javaee.github.io/javamail/>

**Item Description:** The JavaMail API provides classes that model a mail system.

**License Web Site:** <https://javaee.github.io/javamail/LICENSE>



**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## JavaServer Pages API

**Vendor:** Javax

**Vendor Web Site:** <https://mvnrepository.com/artifact/javax.servlet.jsp/jsp-api/2.1>

**Item Description:** The JspFactory is an abstract class that defines a number of factory methods available to a JSP page at runtime for the purposes of creating instances of various interfaces and classes used to support the JSP implementation.

**License Web Site:** <https://opensource.org/licenses/CDDL-1.0>, <https://www.gnu.org/licenses/old-licenses/gpl-2.0.en.html>

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## Java Servlet API

**Vendor:** Oracle

**Vendor Web Site:** <http://www.oracle.com/index.html>

**Item Description:** JavaServlet Specification. The javax.servlet package contains a number of classes and interfaces that describe and define the contracts between a servlet class and the runtime environment provided for an instance of such a class by a conforming servlet container.

**License Web Site:** <https://enterprise.dejacode.com/licenses/public/cddl-1.0/>

**License:** See “Common Development and Distribution License (CDDL-1.0)” on page 77.

## Javassist (Java Programming Assistant)

**Vendor:** JBoss

**Vendor Web Site:** <https://mvnrepository.com/artifact/org.javassist/javassist>

**Item Description:** Javassist (Java Programming Assistant) simplifies Java bytecode manipulation. It is a class library for editing bytecodes in Java; it enables Java programs to define a new class at runtime and to modify a class file when the JVM loads it.

**License Web Site:** <https://mvnrepository.com/artifact/org.javassist/javassist>

**License:** See “Apache License v2.0” on page 73 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## Javax Annotation API

**Vendor:** Oracle

**Vendor Web Site:** <https://www.oracle.com>

**Item Description:** Common Annotations for the Java™ Platform API.

**License Web Site:** <https://github.com/javaee/javax.annotation/blob/master/LICENSE>



**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## Javax Batch API

**Vendor:** Javax

**Vendor Web Site:** <https://mvnrepository.com/artifact/javax.batch/javax.batch-api-all>

**Item Description:** Java Batch is a new standard that makes it easier to process large amounts of data and manage how that data is processed.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Javax Inject

**Vendor:** Javax

**Vendor Web Site:** <https://mvnrepository.com/artifact/javax.inject/javax.inject>

**Item Description:** This package specifies a means for obtaining objects in such a way as to maximize reusability, testability and maintainability compared to traditional approaches such as constructors, factories, and service locators (e.g., JNDI).

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Javax JMS API

**Vendor:** Javax

**Vendor Web Site:** <https://mvnrepository.com/artifact/javax.jms/javax.jms-api>

**Item Description:** A Connection object is a client’s active connection to its JMSprovider. ConnectionConsumer. For application servers, Connection objects provide a special facility for creating a ConnectionConsumer (optional).

**License Web Site:** <https://jersey.github.io/license.html> and <https://www.gnu.org/licenses/old-licenses/gpl-2.0.en.html>

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## Javolution

**Vendor:** Javolution

**Vendor Web Site:** <http://javolution.org/>

**Item Description:** Javolution is a real-time library aiming to make Java or Java-like/C++ applications faster and more time predictable. Time-predictability can easily be ruined by the use of the standard library (lazy initialization, array resizing, etc.) which is not acceptable for safety-critical systems. The open source Javolution library addresses these concerns for the Java platform and native applications. It provides numerous high-performance classes and utilities useful to non real-time applications as well.



**License Web Site:** <http://javolution.org/LICENSE.txt>

**License:** See “BSD License” on page 76.

## JAXB API

**Vendor:** Glassfish

**Vendor Web Site:** <http://central.maven.org/maven2/com/sun/xml/bind/jaxb-core/2.3.0.1/>

**Item Description:** JAXB Core module. Contains sources required by XJC, JXC and Runtime modules.

**License Web Site:** [http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81 and “GNU GENERAL PUBLIC LICENSE” on page 105.

## Jaxen XPath Library

**Vendor:** Jaxen

**Vendor Web Site:** <http://www.cafeconleche.org/jaxen/>

**Item Description:** Jaxen is an open source XPath library written in Java. It is adaptable to many different object models, including DOM, XOM, dom4j, and JDOM. Is it also possible to write adapters that treat non-XML trees such as compiled Java byte code or Java beans as XML, thus enabling you to query these trees with XPath.

**License Web Site:** <https://opensource.org/licenses/BSD-2-Clause>

**License:** See “BSD License” on page 76.

## JBoss Logging

**Vendor:** RedHat Inc.

**Vendor Web Site:** <https://developer.jboss.org/welcome>

**Item Description:** JBoss Logging is a “logging bridge” providing integration with numerous logging frameworks.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## JCIP Annotations

**Vendor:** Stephen Connolly

**Vendor Web Site:** <http://stephenc.github.com/jcip-annotations>

**Item Description:** A clean room implementation of the JCIP Annotations based entirely on the specification provided by the javadocs.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.



## JCommander

**Vendor:** Cédric Beust

**Vendor Web Site:** <https://jcommander.org/>

**Item Description:** Commander is a very small Java framework that makes it trivial to parse command-line parameters.

**License Web Site:** [https://jcommander.org/#\\_license](https://jcommander.org/#_license)

**License:** See “Apache License v2.0” on page 73.

## JDOM

**Vendor:** JDOM

**Vendor Web Site:** <http://www.jdom.org/>

**Item Description:** A complete, Java-based solution for accessing, manipulating, and outputting XML data from Java code.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Jersey -RESTful Web Services in Java

**Vendor:** Jersey

**Vendor Web Site:** <https://jersey.github.io/index.html>

**Item Description:** This is a Jersey core client implementation.

**License Web Site:** <https://jersey.github.io/license.html>

**License:** See “Common Development and Distribution License (CDDL-1.1)” on page 81.

## JetS3t

**Vendor:** JetS3T

**Vendor Web Site:** <http://www.jets3t.org/index.html>

**Item Description:** An open source Java toolkit for Amazon S3, Amazon CloudFront, and Google Storage Service.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Jettison

**Vendor:** Jettison

**Vendor Web Site:** <https://github.com/jettison-json/jettison>

**Item Description:** Jettison is a Java library for converting XML to JSON and vice-versa with the help of StAX (<https://en.wikipedia.org/wiki/StAX>). It implements XMLStreamWriter and XMLStreamReader and supports Mapped and BadgerFish conventions.

**License Web Site:** <https://github.com/jettison-json/jettison/blob/master/LICENSE>

**License:** See “Apache License v2.0” on page 73.

## Jetty

**Vendor:** Eclipse

**Vendor Web Site:** <https://www.eclipse.org/jetty/>

**Item Description:** Eclipse Jetty provides a Web server and javax.servlet container, plus support for HTTP/2, WebSocket, OSGi, JMX, JNDI, JAAS and many other integrations. These components are open source and available for commercial use and distribution.

**License Web Site:** <https://www.eclipse.org/jetty/licenses.html>

**License:** See “Apache License v2.0” on page 73.

## JFreeChart

**Vendor:** JFreeChart

**Vendor Web Site:** <http://www.jfree.org/jfreechart/>

**Item Description:** JFreeChart is an open-source framework for the programming language Java, which allows the creation of a wide variety of both interactive and non-interactive charts. JFreeChart supports pie charts (2D and 3D), bar charts (horizontal and vertical, regular and stacked), line charts, scatter plots, time series charts, high-low-open-close charts, candlestick plots, Gantt charts, combined plots, thermometers, dials and more. JFreeChart can be used in client-side and server-side applications.

**License Web Site:** <https://www.gnu.org/licenses/old-licenses/lgpl-2.1.en.html>

**License:** See “GNU LESSER GENERAL PUBLIC LICENSE” on page 114.

## JGroups

**Vendor:** JGroups

**Vendor Web Site:** <http://www.jgroups.org>

**Item Description:** JGroups is a toolkit for reliable messaging. It can be used to create clusters whose nodes can send messages to each other.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## JWT

**Vendor:** Stormpath’s CTO, Les Hazlewood

**Vendor Web Site:** <https://stormpath.com/>



**Item Description:** JWT is a Java implementation based on the JWT, JWS, JWE, JWK and JWA RFC specifications.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## JLine

**Vendor:** Marc Prud'hommeaux

**Vendor Web Site:** <https://mvnrepository.com/artifact/jline>

**Item Description:** JLine is a Java library for reading and editing user input in console applications.

**License Web Site:** <https://github.com/jline/jline1/blob/master/LICENSE.txt>

**License:** See “BSD License” on page 76.

## Joda Convert

**Vendor:** Joda

**Vendor Web Site:** <https://www.joda.org/joda-convert>

**Item Description:** Date and time library to replace JDK date handling.

**License Web Site:** <https://www.joda.org/joda-time/licenses.html>

**License:** See “Apache License v2.0” on page 73.

## Joda Time

**Vendor:** Joda

**Vendor Web Site:** <https://www.joda.org/joda-time/>

**Item Description:** Date and time library to replace JDK date handling.

**License Web Site:** <https://www.joda.org/joda-time/licenses.html>

**License:** See “Apache License v2.0” on page 73.

## Jodd Core

**Vendor:** Jodd

**Vendor Web Site:** <https://jodd.org/>

**Item Description:** Jodd is a set of micro-frameworks and developer-friendly tools and utilities. Simple code. Small size. Good performances. Whatever. Use what you like.

**License Web Site:** <https://github.com/oblac/jodd/blob/master/LICENSE>

**License:** See “BSD License” on page 76.

## jOOQ

**Vendor:** jOOQ

**Vendor Web Site:** <https://www.jooq.org/>

**Item Description:** jOOQ generates Java code from your database and lets you build type safe SQL queries through its fluent API.

**License:** Commercial license

## jQuery

**Vendor:** jQuery Foundation

**Vendor Web Site:** <https://jquery.org>

**Item Description:** File Upload widget with multiple file selection, drag and drop support, progress bar, validation and preview images, audio and video for jQuery. Supports cross-domain, chunked and resumable file uploads. Works with any server-side platform (Google App Engine, PHP, Python, Ruby on Rails, Java, etc.) that supports standard HTML form file uploads.

**License Web Site:** <https://tldrlegal.com/license/mit-license>

**License:** See “The MIT License (MIT)” on page 130.

## JSON

**Vendor:** JSON

**Vendor Web Site:** <https://www.json.org/>

**Item Description:** JSON is a light-weight, language independent, data interchange format. The files in this package implement JSON encoders/decoders in Java. It also includes the capability to convert between JSON and XML, HTTP headers, Cookies, and CDL.

**License Web Site:** <https://www.json.org/license.html>

**License:** See “The JSON License” on page 120.

## JSON Smart and Fast Parser

**Vendor:** Uriel Chemouni and Eitan Raviv

**Vendor Web Site:** <https://javalibs.com/artifact/net.minidev/json-smart>

**Item Description:** Json-smart is a performance focused, JSON processor library. It's a small and fast json parser/generator for Java.

**License Web Site:** <https://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## json4s

**Vendor:** json4s

**Vendor Web Site:** <http://json4s.org/>



**Item Description:** A Scala JSON library.

**License Web Site:** <https://github.com/json4s/json4s/blob/master/LICENSE>

**License:** See “Apache License v2.0” on page 73.

## JSR166e

**Vendor:** Twitter

**Vendor Web Site:** <https://javalibs.com/artifact/com.twitter/jsr166e>

**Item Description:** JSR166e provides a powerful, extensible framework of high-level and high-performance threading utilities that help programmers write robust and scalable thread safe code. It promotes reusability so programmers do not have to reinvent the wheel for common problems.

**License Web Site:** <https://github.com/twitter-archive/jsr166e/blob/master/LICENSE>

**License:** See “Creative Commons Legal Code” on page 86.

## JavaServer Pages Standard Tag Library (JSTL)

**Vendor:** Oracle

**Vendor Web Site:** <http://www.oracle.com/technetwork/java/index-jsp-135995.ht>

**Item Description:** JavaServer Pages Standard Tag Library (JSTL) encapsulates as simple tags the core functionality common to many Web applications. JSTL has support for common, structural tasks such as iteration and conditionals, tags for manipulating XML documents, internationalization tags, and SQL tags. It also provides a framework for integrating existing custom tags with JSTL tags.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.html>

**License:** See “Apache License v2.0” on page 73.

## JUnit

**Vendor:** JUnit

**Vendor Web Site:** <http://junit.org/junit4>

**Item Description:** JUnit is a simple framework to write repeatable tests. It is an instance of the xUnit architecture for unit testing frameworks.

**License Web Site:** <http://junit.org/junit4/license.html>

**License:** See “Eclipse Public License – v1.0” on page 93.

## Kendo UI Professional

**Vendor:** Telerik

**Vendor Web Site:** <http://www.telerik.com/>

**Item Description:** Kendo UI is an HTML5 user interface framework for building interactive and high-performance websites and applications. The framework comes with a library of more than 70 UI widgets, an abundance of data-visualization gadgets, client-side data source, and a built-in MVVM library. Kendo UI provides AngularJS and Bootstrap integration.



**License Web Site:** <http://www.telerik.com/purchase/license-agreement/kendo-ui-professional>

**License:** See “Telerik End User License Agreement for Kendo UI Professional” on page 161.

## Kibana

**Vendor:** Elastic

**Vendor Web Site:** <https://www.elastic.co/>

**Item Description:** Kibana gives shape to your data and is the extensible user interface for configuring and managing all aspects of the Elastic Stack.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Kryo Shaded

**Vendor:** Esoteric Software

**Vendor Web Site:** <http://esotericsoftware.com>

**Item Description:** Kryo is a fast and efficient binary object graph serialization framework for Java. The goals of the project are high speed, low size, and an easy-to-use API. The project is useful any time objects need to be persisted, whether to a file, database, or over the network. Kryo can also perform automatic deep and shallow copying/cloning. This is direct copying from object to object, not object to bytes to object.

**License Web Site:** <https://github.com/EsotericSoftware/kryo/blob/master/LICENSE.md>

**License:** See “BSD License” on page 76.

## LevelDbjni All

**Vendor:** Google

**Vendor Web Site:** <https://github.com/google/leveldb>

**Item Description:** LevelDB is a fast, key-value storage library written at Google that provides an ordered mapping from string keys to string values. The leveldb library provides a persistent key value store. Keys and values are arbitrary byte arrays. The keys are ordered within the key value store according to a user-specified comparator function.

**License Web Site:** <https://github.com/google/leveldb/blob/master/LICENSE>

**License:** See “BSD License” on page 76.

## Log4jdbc-log4j2

**Vendor:** Log4jdbc-log4j2

**Vendor Web Site:** <http://log4jdbc.brunorozendo.com/>

**Item Description:** Log4jdbc-log4j2 is a JDBC proxy driver for logging SQL and other interesting information.

**License Web Site:** <https://www.apache.org/licenses/>



**License:** See “Apache License v2.0” on page 73.

## Logback

**Vendor:** Quality Open Software

**Vendor Web Site:** <http://logback.qos.ch/job.html>

**Item Description:** Logback is intended as a successor to the popular log4j project, picking up where log4j leaves off.

**License Web Site:** <http://logback.qos.ch/license.html> (EPL v1.0 and the LGPL 2.1)

**License:** See “Eclipse Public License – v1.0” on page 93 and MongoDB.

## Logi Platform Services

**Vendor:** Logi Analytics Inc.

**Vendor Web Site:** <https://www.logianalytics.com>

**Item Description:** Analytics tools and server

**License Web Site:** <https://logianalytics.com>

**License:** Commercial

## Logstash

**Vendor:** Elastic

**Vendor Web Site:** <https://www.elastic.co/>

**Item Description:** Logstash is an open source, server-side data processing pipeline that ingests data from a multitude of sources simultaneously, transforms it, and then sends it to Elasticsearch.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## LZ4

**Vendor:** LZ4

**Vendor Web Site:** <https://lz4.github.io/lz4/>

**Item Description:** LZ4 is lossless compression algorithm, providing compression speed at 400 MB/s per core (0.16 Bytes/cycle). It features an extremely fast decoder, with speed in multiple GB/s per core (0.71 Bytes/cycle). A high compression derivative, called LZ4\_HC, is available, trading customizable CPU time for compression ratio.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## MapStruct

**Vendor:** MapStruct



**Vendor Web Site:** <http://mapstruct.org/>

**Item Description:** MapStruct is a code generator that simplifies the implementation of mappings between Java bean types based on a convention over configuration approach. The generated mapping code uses plain method invocations and thus is fast, type-safe and easy to understand.

**License Web Site:** <http://mapstruct.org/development/license/>

**License:** See “Apache License v2.0” on page 73.

## Metrics Core

**Vendor:** Metrics

**Vendor Web Site:** <https://metrics.dropwizard.io/4.1.2/manual/core.html>

**Item Description:** Metrics Core is the central library for Metrics, which provides some basic functionality:

- Metric registries
- The five metric types: Gauges, Counters, Histograms, Meters and Timers
- Reporting metrics values via JMX, the console, CSV files, and SLF4J loggers

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## Microsoft JDBC Driver for SQL Server

**Vendor:** Microsoft

**Vendor Web Site:** <https://www.microsoft.com/en-us/download/details.aspx?id=55539>

**Item Description:** The Microsoft JDBC Driver for SQL Server is a Type 4 JDBC driver that provides database connectivity through the standard JDBC application program interfaces available in JAVA Platform, Enterprise Editions.

**License Web Site:** <https://github.com/microsoft/mssql-jdbc/blob/dev/LICENSE>

**License:** See “The MIT License (MIT)” on page 130.

## MinLog

**Vendor:** Esoteric Software

**Vendor Web Site:** <http://esotericsoftware.com/>

**Item Description:** MinLog Minimal overhead Java logging.

**License Web Site:** <https://opensource.org/licenses/BSD-2-Clause>

**License:** See “BSD License” on page 76.

## Mockito

**Vendor:** Mockito

**Vendor Web Site:** <http://site.mockito.org/>



**Item Description:** Mockito is a mocking framework, Java-based library that is used for effective unit testing of Java applications. Mockito is used to mock interfaces so that a dummy functionality can be added to a mock interface that can be used in unit testing.

**License Web Site:** [https://en.wikipedia.org/wiki/MIT\\_License](https://en.wikipedia.org/wiki/MIT_License)

**License:** See “The MIT License (MIT)” on page 130.

## MongoDB

**Vendor:** MongoDB Inc

**Vendor Web Site:** <https://www.mongodb.org/>

**Item Description:** MongoDB is a cross-platform document-oriented database. Classified as a NoSQL database, MongoDB eschews the traditional table-based relational database structure in favor of JSON-like documents with dynamic schemas, making the integration of data in certain types of applications easier and faster.

**Server License Web Site:** <http://www.gnu.org/licenses/agpl-3.0.html>

**Client Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**Server License:** See “GNU Affero General Public License (GNU AGPL)” on page 97

**Client License:** See “Apache License v2.0” on page 73.

## MX4J

**Vendor:** MX4J

**Vendor Web Site:** <http://mx4j.sourceforge.net/>

**Item Description:** MX4J is a project to build an Open Source implementation of the Java Management Extensions (JMX) and of the JMX Remote API (JSR 160) specifications, and to build tools relating to JMX.

**License Web Site:** <http://mx4j.sourceforge.net/docs/ch01s06.html>

**Client License:** See “The MX4J License, Version 1.0” on page 137.

## MXP1

**Vendor:** Extreme Labs, Indiana University

**Vendor Web Site:** <http://www.extreme.indiana.edu/xgws/xsoap/xpp/mxp1/>

**Item Description:** MXP1 is a stable XmlPull parsing engine that is based on ideas from XPP and in particular XPP2 but completely revised and rewritten to take the best advantage of latest JIT JVMs such as Hotspot in JDK 1.4+.

**License Web Site:** <http://www.extreme.indiana.edu/dist/java-repository/xpp3/licenses/LICENSE.txt>

**License:** See “LICENSE FOR THE Extreme! Lab” on page 96.

## MySql Connector Java

**Vendor:** MySQL



**Vendor Web Site:** <https://dev.mysql.com/>

**Item Description:** MySQL Connector/J is the official JDBC driver for MySQL.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## NekoHTML

**Vendor:** CyberNeko HTML

**Vendor Web Site:** <http://nekohtml.sourceforge.net/>

**Item Description:** NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Netty

**Vendor:** Netty Project

**Vendor Web Site:** <https://netty.io/>

**Item Description:** Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

## Nimbus JOSE+JWT

**Vendor:** Connect2id Ltd.

**Vendor Web Site:** <https://mvnrepository.com/artifact/com.nimbusds/nimbus-jose-jwt/4.41.1>

**Item Description:** Java library for Javascript Object Signing and Encryption (JOSE) and JSON Web Tokens (JWT).

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## Not Yet Commons SSL

**Vendor:** Julius Davbies

**Vendor Web Site:** <http://www.juliusdavies.ca/commons-ssl/>

**Item Description:** Not-yet-commons-SSL is a library to make SSL in Java easier. This library implements SSL functionality in a way that is easy and flexible. It improves security by checking CRLs by default. It allows options to be set or unset for each SSLSocketFactory. It supports many different formats of PKCS8 and OpenSSL Encrypted Private Keys, and it automatically detects the type of KeyMaterial or TrustMaterial.

**License Web Site:** <https://directory.fsf.org/wiki/License:Expat>



**License:** “The MIT License (MIT)” on page 130.

## Objenesis

**Vendor:** Objenesis

**Vendor Web Site:** <http://objenesis.org/>

**Item Description:** Objenesis is a small Java library that serves one purpose: To instantiate a new object of a particular class.

**License Web Site:** <http://objenesis.org/license.html>

**License:** “Apache License v2.0” on page 73.

## OkHttp

**Vendor:** OkHttp

**Vendor Web Site:** <https://square.github.io/okhttp/>

**Item Description:** OkHttp is an HTTP client that is efficient by default. HTTP/2 support allows all requests to the same host to share a socket. Connection pooling reduces request latency if HTTP/2 is not available. Transparent GZIP shrinks download sizes. Response caching avoids the network completely for repeat requests.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## Okio

**Vendor:** Okio

**Vendor Web Site:** <https://square.github.io/okhttp/>

**Item Description:** Okio is a library that complements java.io and java.nio to make it easier to access, store, and process your data. Okio is a library that simplifies and simultaneously enriches the usage of InputStream and OutputStream classes from the standard java.io package.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## OpenCensus

**Vendor:** OpenCensus

**Vendor Web Site:** <https://opencensus.io/>

**Item Description:** OpenCensus is a vendor-agnostic single distribution of libraries to provide metrics collection and tracing for your services.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## OpenCSV

**Vendor:** opencsv

**Vendor Web Site:** <http://opencsv.sourceforge.net/licenses.html>

**Item Description:** Opencsv supports all the basic CSV-type things you are likely to want to do: Arbitrary numbers of values per line. Ignoring commas in quoted elements. Handling quoted entries with embedded carriage returns (i.e. entries that span multiple lines). Configurable separator and quote characters (or use sensible defaults).

**License Web Site:** <http://opencsv.sourceforge.net/licenses.html>

**License:** “Apache License v2.0” on page 73.

## OpenEdge

**Vendor:** Progress Software Corporation

**Vendor Web Site:** <http://www.progress.com>

**Item Description:** 4GL Business Application development Language

**License Web Site:** <http://www.progress.com/esd>

**License:** Commercial

## OpenSAML 2

**Vendor:** OpenSAML 2

**Vendor Web Site:** <https://wiki.shibboleth.net/confluence/display/OpenSAML/Home/>

**Item Description:** OpenSAML is a set of open source C++ & Java libraries meant to support developers working with the Security Assertion Markup Language (SAML). OpenSAML 2, the current version, supports SAML 1.0, 1.1, and 2.0. Additionally, various development groups have found the framework created to support OpenSAML 2 useful for their own work.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** “Apache License v2.0” on page 73.

## osgi-resource-locator

**Vendor:** Appdynamics

**Vendor Web Site:** <https://www.appdynamics.com/>

**Item Description:** Used by various API providers that rely on META-INF/services mechanism to locate providers.

**License Web Site:** <https://github.com/Appdynamics/OSS/blob/master/osgi-resource-locator/1.0.1/CDDL>

**License:** “Common Development and Distribution License (CDDL-1.1)” on page 81.

## OWASP AntiSamy

**Vendor:** Arshan Dabirsiaghi



**Vendor Web Site:** <https://github.com/nahsra/antisamy>

**Item Description:** A library for performing fast, configurable cleansing of HTML coming from untrusted sources.

**License Web Site:** <https://opensource.org/licenses/BSD-3-Clause>

**License:** See “Modified BSD License” on page 131.

## OWASP Java HTML Sanitizer Project

**Vendor:** The Open Web Application Security Project

**Vendor Web Site:**

[https://www.owasp.org/index.php/About\\_The\\_Open\\_Web\\_Application\\_Security\\_Project](https://www.owasp.org/index.php/About_The_Open_Web_Application_Security_Project)

**Item Description:** OWASP Java HTML Sanitizer Project takes third-party HTML and produces HTML that is safe to embed in your web application. Fast and easy to configure.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>, <https://opensource.org/licenses/BSD-3-Clause>

**License:** See “Apache License v2.0” on page 73 and “Modified BSD License” on page 131.

## Paranamer

**Vendor:** Paul Hammant

**Vendor Web Site:** <https://devops.paulhammant.com/>

**Item Description:** Paranamer is a library that allows the parameter names of non-private methods and constructors to be accessed at runtime. Normally this information is dropped by the compiler. In effect, methods like `doSomething(mypkg.Person toMe)` currently look like `doSomething(mypackage.Person ???)` to people using Java’s reflection to inspect methods.

**License Web Site:** <https://github.com/paul-hammant/paranamer/blob/master/LICENSE.txt>

**License:** See “Modified BSD License” on page 131.

## Project Lombok

**Vendor:** Project Lombok

**Vendor Web Site:** <https://projectlombok.org/>

**Item Description:** Project Lombok is a Java library that automatically plugs into your editor and build tools, spicing up your Java. Never write another getter or equals method again, with one annotation your class has a fully featured builder, Automate your logging variables, and much more.

**License Web Site:** <https://opensource.org/licenses/mit-license.php>

**License:** “The MIT License (MIT)” on page 130.

## Proto Google Cloud PubSub

**Vendor:** Google LLC



**Vendor Web Site:** <https://mvnrepository.com/artifact/com.google.api.grpc/proto-google-cloud-pubsub-v1/0.10.0>

**Item Description:** PROTO library for proto-google-cloud-pubsub-v1. Google Cloud PubSub is Google's scalable real-time messaging service that lets users send and receive messages between independent applications.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Protocol Buffers [Core]

**Vendor:** Google

**Vendor Web Site:** <https://mvnrepository.com/artifact/com.google.protobuf/protobuf-java>

**Item Description:** Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.

**License Web Site:** <https://opensource.org/licenses/BSD-3-Clause>

**License:** See “Modified BSD License” on page 131.

## Py4J

**Vendor:** Barthélemy Dagenais

**Vendor Web Site:** <https://www.py4j.org>

**Item Description:** Py4J enables Python programs running in a Python interpreter to dynamically access Java objects in a Java Virtual Machine.

**License Web Site:** <https://github.com/bartdag/py4j/blob/master/LICENSE.txt>

**License:** See “BSD License” on page 76.

## Pyrolite

**Vendor:** Irmén de Jong

**Vendor Web Site:** <http://www.razorvine.net>

**Item Description:** This library allows your Java or .NET program to interface easily with a Python program, using the Pyro protocol to call methods on remote objects (see <https://github.com/irmen/Pyro4>). It also provides a feature complete pickle protocol implementation -read and write- to exchange data with Pyro/Python. This part of the library can also be used in stand alone scenarios to just read and write Python pickle files.

**License Web Site:** <https://github.com/irmen/Pyrolite/blob/master/LICENSE>

**License:** See “The MIT License (MIT)” on page 130.

## Quartz Job Scheduler

**Vendor:** Terracotta

**Vendor Web Site:** <http://www.quartz-scheduler.org/>



**Item Description:** Quartz is an open-source job-scheduling library that can be integrated within virtually any Java application. Quartz can be used to create simple or complex schedules for executing tens, hundreds, or even tens-of-thousands of jobs; jobs whose tasks are defined as standard Java components that may execute virtually anything you may program them to do. The Quartz Scheduler includes many enterprise-class features, such as support for JTA transactions and clustering.

**License Web Site:** <http://www.quartz-scheduler.org/overview/license.html>

**License:** See “Apache License v2.0” on page 73.

## Reflections

**Vendor:** Ron Mamo

**Vendor Web Site:** <https://github.com/ronmamo/reflections>

**Item Description:** Reflections scans your classpath, indexes the metadata, allows you to query it on runtime and may save and collect that information for many modules within your project.

Using Reflections you can query your metadata such as:

- get all subtypes of some type
- get all types/members annotated with some annotation
- get all resources matching a regular expression
- get all methods with specific signature including parameters, parameter annotations and return type

**License Web Site:** <http://www.wtfpl.net/>

**License:** See “WTFPL” on page 172.

## Rhino

**Vendor:** Mozilla

**Vendor Web Site:** <https://developer.mozilla.org>

**Item Description:** Rhino is an open-source implementation of JavaScript written entirely in Java. It is typically embedded into Java applications to provide scripting to end users. It is embedded in J2SE 6 as the default Java scripting engine.

**License Web Site:** <https://github.com/mozilla/rhino/blob/master/LICENSE.txt>

**License:** See “Mozilla Public License, Version 2.0” on page 131.

## Roaring Bitmap

**Vendor:** Roaring Bitmap

**Vendor Web Site:** <http://roaringbitmap.org/>

**Item Description:** A better compressed bitset in Java.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Sardine

**Vendor:** lookfirst (Jon Stevens)

**Vendor Web Site:** <https://github.com/lookfirst/sardine>

**Item Description:** Sardine is a next generation WebDAV client for Java. It is intended to be simple to use and does not implement the full WebDAV client specification (although a good amount is covered). The goal is to provide methods for most use case scenarios when working with a WebDAV server. The code needs to run as fast as possible and use the latest released Apache HttpComponents.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Scala

**Vendor:** Scala

**Vendor Web Site:** <https://www.scala-lang.org/>

**Item Description:** Scala combines object-oriented and functional programming in one concise, high-level language. Scala’s static types help avoid bugs in complex applications, and its JVM and JavaScript runtimes let you build high-performance systems with easy access to huge ecosystems of libraries.

**License Web Site:** <https://www.scala-lang.org/license/>

**License:** See “BSD License” on page 76.

## SLF4J

**Vendor:** QOS

**Vendor Web Site:** <http://www.qos.ch/shop/index>

**Item Description:** The Simple Logging Facade for Java (SLF4J) serves as a simple facade or abstraction for various logging frameworks (e.g. java.util.logging, logback, log4j) allowing the end user to plug in the desired logging framework at deployment time.

**License Web Site:** <http://www.slf4j.org/license.html>

**License:** See “The MIT License (MIT)” on page 130.

## SLF4J Log4j

**Vendor:** QOS

**Vendor Web Site:** <http://www.qos.ch/shop/index>

**Item Description:** SLF4J Binding for log4j version 1.2. The Simple Logging Facade for Java (SLF4J) serves as a simple facade or abstraction for various logging frameworks, such as java.util.logging, logback and log4j. SLF4J allows the end-user to plug in the desired logging framework at deployment time.

**License Web Site:** <http://www.slf4j.org/license.html>

**License:** See “The MIT License (MIT)” on page 130.

## SnakeYAML

**Vendor:** Apache Maven

**Vendor Web Site:** <https://mvnrepository.com/artifact/org.yaml/snakeyaml>

**Item Description:** SnakeYAML is a YAML 1.1 processor for Java.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

## Snappy Java

**Vendor:** Xerial

**Vendor Web Site:** <https://github.com/xerial>

**Item Description:** Snappy is a compression/decompression library. It does not aim for maximum compression, or compatibility with any other compression library; instead, it aims for very high speeds and reasonable compression.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Snappy in Java

**Vendor:** iq80

**Vendor Web Site:** <https://github.com/dain>

**Item Description:** This is a rewrite (port) of Snappy written in pure Java. This compression code produces a byte-for-byte exact copy of the output created by the original C++ code, and extremely fast.

**License Web Site:** <https://github.com/dain/snappy/blob/master/license.txt>

**License:** See “Apache License v2.0” on page 73.

## Spark Cassandra Connector

**Vendor:** DataStax

**Vendor Web Site:** <https://github.com/datastax/spark-cassandra-connector>

**Item Description:** This library lets you expose Cassandra tables as Spark RDDs, write Spark RDDs to Cassandra tables, and execute arbitrary CQL queries in your Spark applications.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>

**License:** See “Apache License v2.0” on page 73.

## Spring Batch

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <http://projects.spring.io/spring-batch/>



**Item Description:** A lightweight, comprehensive batch framework designed to enable the development of robust batch applications vital for the daily operations of enterprise systems.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Spring Boot

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <http://spring.io/projects/spring-boot>

**Item Description:** Spring Boot makes it easy to create stand-alone, production-grade Spring based Applications that you can “just run.”

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Spring Data Commons Core

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <https://spring.io>

**Item Description:** The Spring Data Commons project applies core Spring concepts to the development of solutions using many relational and non-relational data stores.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Spring Data JPA

**Vendor:** Spring

**Vendor Web Site:** <https://spring.io/projects/spring-data-jpa>

**Item Description:** Spring Data module for JPA repositories.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Spring Data MongoDB

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <http://projects.spring.io/spring-data-mongodb/>

**Item Description:** The primary goal of the Spring Data project is to make it easier to build Spring-powered applications that use new data access technologies such as non-relational databases, map-reduce frameworks, and cloud-based data services. The Spring Data MongoDB project aims to provide a familiar and consistent Spring-based programming model for new datastores while retaining store-specific features and capabilities. The Spring Data MongoDB project provides integration with the MongoDB document database. Key functional areas of Spring Data MongoDB are a POJO centric model for interacting with a MongoDB DBCollection and easily writing a repository style data access layer.

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## Spring Framework

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <https://spring.io/>

**Item Description:** The Spring Framework is an application framework and inversion of control container for the Java platform. The framework’s core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an alternative to, replacement for, or even addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is open source.

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## Spring Framework Mobile

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <https://projects.spring.io/spring-mobile>

**Item Description:** Spring Mobile is a framework that provides capabilities to detect the type of device making a request to your Spring web site and serve alternative views based on that device. Like all Spring projects, the real power of Spring Mobile is found in how easily it can be extended.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

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## Spring Integration

**Vendor:** Spring Integration

**Vendor Web Site:** <http://projects.spring.io/spring-integration/>

**Item Description:** Extends the Spring programming model to support the well-known Enterprise Integration Patterns. Spring Integration enables lightweight messaging within Spring-based applications and supports integration with external systems via declarative adapters.

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**License:** See “Apache License v2.0” on page 73.

## Spring Integration Kafka

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <https://spring.io/projects/spring-kafka>

**Item Description:** It provides inbound and outbound channel adapters and gateways for Apache Kafka.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>



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## Spring Kafka

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <https://spring.io/projects/spring-kafka>

**Item Description:** Spring Kafka applies core Spring concepts to the development of Kafka-based messaging solutions.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## Spring Plugin Core

**Vendor:** Pivotal Software

**Vendor Web Site:** <https://pivotal.io>

**Item Description:** Core plugin infrastructure.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

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## Spring Retry

**Vendor:** Pivotal Software

**Vendor Web Site:** <https://pivotal.io/>

**Item Description:** Spring Retry provides an abstraction around retrying failed operations, with an emphasis on declarative control of the process and policy-based behavior that is easy to extend and customize. For instance, you can configure a plain POJO operation to retry if it fails, based on the type of exception, and with a fixed or exponential backoff.

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## Spring Security

**Vendor:** Pivotal Software

**Vendor Web Site:** <http://projects.spring.io/spring-security/>

**Item Description:** Spring Security is a powerful and highly customizable authentication and access-control framework. It is the de facto standard for securing Spring-based applications.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** “Apache License v2.0” on page 73.

## Spring Security SAML2 Core

**Vendor:** Pivotal Software



**Vendor Web Site:** <https://projects.spring.io/spring-security-saml>

**Item Description:** Spring Security SAML Extension allows a seamless combination of SAML 2.0 and authentication and federation mechanisms in a single application.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** “Apache License v2.0” on page 73.

## Spring Security OAuth2

**Vendor:** Pivotal Software, Inc.

**Vendor Web Site:** <http://projects.spring.io/spring-security-oauth/>

**Item Description:** Spring Security OAuth2 adds OAuth2 capabilities to Spring Security.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

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## Spring TestContext Framework

**Vendor:** Pivotal Software

**Vendor Web Site:** <https://pivotal.io>

**Item Description:** Spring empowers developers with a rich Spring TestContext framework, which provides a strong support for unit as well as integration testing. It supports both API-based and annotation-based test case creation. The framework strongly supports JUnit and TestNG as the testing frameworks.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

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## SpringFox

**Vendor:** SpringFox

**Vendor Web Site:** <http://springfox.github.io/springfox/>

**Item Description:** Automated JSON API documentation for APIs built with Spring.

**License Web Site:** <https://github.com/springfox/springfox/blob/master/LICENSE>

**License:** “Apache License v2.0” on page 73.

## StAX API

**Vendor:** Codehaus

**Vendor Web Site:** <http://stax.codehaus.org/>

**Item Description:** The StAX API exposes methods for iterative, event-based processing of XML documents. XML documents are treated as a filtered series of events, and infoset states can be stored in a procedural fashion. Moreover, unlike SAX, the StAX API is bidirectional, enabling both reading and writing of XML documents. The StAX API is really two distinct API sets: a cursor API and an iterator API.

**License Web Site:** [https://enterprise.dejacode.com/components/public/StAX+API/1.0-2/?\\_list\\_filters=q%3Dstax#license](https://enterprise.dejacode.com/components/public/StAX+API/1.0-2/?_list_filters=q%3Dstax#license)

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## Stream Library

**Vendor:** Clearspring Analytics

**Vendor Web Site:** <https://github.com/addthis/stream-lib/blob/master/README.mdown>

**Item Description:** A Java library for summarizing data in streams for which it is infeasible to store all events. More specifically, there are classes for estimating: cardinality (i.e. counting things); set membership; top-k elements; and frequency. One particularly useful feature is that cardinality estimators with compatible configurations may be safely merged.

**License Web Site:** <https://github.com/addthis/stream-lib/blob/master/LICENSE.txt>

**License:** See “Apache License v2.0” on page 73.

## StringTemplate

**Vendor:** ANTLR

**Vendor Web Site:** <https://www.antlr.org/> and <http://www.stringtemplate.org/>

**Item Description:** StringTemplate is a Java template engine for generating source code, web pages, emails, or any other formatted text output. StringTemplate is particularly good at multi-targeted code generators, multiple site skins, and internationalization/localization. StringTemplate also powers the ANTLR 3 and 4 code generator. Its distinguishing characteristic is that unlike other engines, it strictly enforces model-view separation.

**License Web Site:** <http://antlr.org/license.html>

**License:** See “BSD License” on page 76.

## Super CSV

**Vendor:** Super CSV

**Vendor Web Site:** <http://super-csv.github.io/super-csv/index.html>

**Item Description:** The main motivation for Super CSV is to be the foremost, fastest, and most programmer-friendly, free CSV package for Java.

**License Web Site:** <http://super-csv.github.io/super-csv/license.html>

**License:** See “Apache License v2.0” on page 73.

## Swagger Annotations

**Vendor:** Swagger

**Vendor Web Site:** <https://swagger.io/tools/open-source/>



**Item Description:** In order to generate OpenAPI documentation, swagger-core offers a set of annotations to declare and manipulate the output. The core output is compliant with OpenAPI Specification. A user is not required to be familiar with the full aspects of the OpenAPI Specification in order to use it, but as a reference it may answer a few questions regarding the generated output.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

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## Swagger Models

**Vendor:** Swagger

**Vendor Web Site:** <https://swagger.io/tools/open-source/>

**Item Description:** Swagger has evolved into one of the most widely used open source tool sets for developing APIs with the OpenAPI Specification.

**License Web Site:** <https://www.apache.org/licenses/LICENSE-2.0>

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## Thoughtworks XStream

**Vendor:** Thoughtworks

**Vendor Web Site:** <http://x-stream.github.io/>

**Item Description:** XStream is a simple library to serialize objects to XML and back again.

**License Web Site:** <http://x-stream.github.io/license.html>

**License:** See “BSD License” on page 76.

## ThreeTen Backport

**Vendor:** ThreeTen Backport

**Vendor Web Site:** <https://www.threeten.org/threetenbp>

**Item Description:** ThreeTen-Backport provides a backport of the Java SE 8 date-time classes to Java SE 6 and 7.

**License Web Site:** <https://www.threeten.org/threetenbp/licenses.html>

**License:** See “Modified BSD License” on page 131.

## Univocity Parsers

**Vendor:** Univocity

**Vendor Web Site:** <https://www.univocity.com/>

**Item Description:** Univocity-parsers is a suite of extremely fast and reliable parsers for Java. The suite provides a consistent interface for handling different file formats, and a solid framework for the development of new parsers.

**License Web Site:** <http://apache.org/licenses/LICENSE-2.0.txt>



**License:** See “Apache License v2.0” on page 73.

## **user-agent-utils**

**Vendor:** bitwalker.eu

**Vendor Web Site:** <http://www.bitwalker.eu/>

**Item Description:** A Java library for user-agent parsing.

**License Web Site:** <https://github.com/HaraldWalker/user-agent-utils/blob/release-1.21/LICENSE.txt>

**License:** See “Bitwalker.eu” on page 76.

## **WalkMe**

**Vendor:** WalkMe

**Vendor Web Site:** <https://www.walkme.com/>

**Item Description:** WalkMe is a leader in the Digital Adoption Platform realm. QAD is using WalkMe and its capabilities to power the visual assistance in Adaptive UX through Guide Me, SmartTips, and launchers.

**License Web Site:** <https://www.walkme.com/end-user-license-agreement/>

**License:** See “WalkMe End User License Agreement” on page 169.

## **woodstox WSTX ASL**

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://mvnrepository.com/artifact/org.codehaus.woodstox/wstx-asl>

**Item Description:** Woodstox is a high-performance XML processor that implements Stax (JSR-173) and SAX2 APIs.

**License Web Site:** <http://www.apache.org/licenses/LICENSE-2.0>

**License:** See “Apache License v2.0” on page 73.

## **Xalan Java Serializer**

**Vendor:** Apache Software Foundation

**Vendor Web Site:** <https://xalan.apache.org/xalan-j/>

**Item Description:** Xalan-Java is an XSLT processor for transforming XML documents into HTML, text, or other XML document types. It implements XSL Transformations (XSLT) Version 1.0 and XML Path Language (XPath) Version 1.0 and can be used from the command line, in an applet or a servlet, or as a module in other program.

**License Web Site:** <https://xalan.apache.org/xalan-j/index.html>

**License:** See “Apache License v2.0” on page 73.



## xml Pull Parsing API

**Vendor:** XML Pull Project

**Vendor Web Site:** <http://www.xmlpull.org/>

**Item Description:** XML Pull Parsing API allows both fast high level iteration (using next() method) and low-level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations.

**License Web Site:** <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.en.html>

**License:** See “GNU LESSER GENERAL PUBLIC LICENSE” on page 114 and “XMLPULL API” on page 172.

## xmlenc Library

**Vendor:** znerd

**Vendor Web Site:** <http://ernstdehaan.blogspot.com/> , <http://freshmeat.sourceforge.net/projects/xmlenc/>

**Item Description:** The xmlenc library is a fast, stream-based XML output library for Java. Main design goals are performance, simplicity and pureness. As far as known, xmlenc is the fastest XML output library for Java.

**License Web Site:** <https://opensource.org/licenses/bsd-license.php>

**License:** See “BSD License” on page 76.

## XOM

**Vendor:** Elliott Rusty Harold

**Vendor Web Site:** <http://www.elharo.com>

**Item Description:** XOM is an open source, tree-based API for processing XML with Java that strives for correctness, simplicity, and performance, in that order.

**License Web Site:** <http://www.gnu.org/copyleft/lesser.html>

**License:** See “GNU LESSER GENERAL PUBLIC LICENSE” on page 114.

## XZ for Java

**Vendor:** The Tukaani Project

**Vendor Web Site:** <https://tukaani.org/xz/java.html>

**Item Description:** This aims to be a complete implementation of XZ data compression in pure Java. Single-threaded streamed compression and decompression and random access decompression have been fully implemented. Threading is planned but it is unknown when it will be implemented.

**License Web Site:** <https://tukaani.org/xz/java.html> or <https://tukaani.org/xz/xz-javadoc/>

**License:** XZ for Java has been put into the public domain.

## Yetus Project

**Vendor:** Apache Foundation

**Vendor Web Site:** <https://yetus.apache.org/>

**Item Description:** The Yetus Project is a collection of libraries and tools that enable contribution and release processes for software projects. It provides: a robust system for automatically checking new contributions against a variety of community accepted requirements the means to document a well defined supported interface for downstream projects tooling to help release managers generate release documentation based on the information provided by community issue trackers and source repositories Most of the software is written in shell and scripting languages.

**License Web Site:** <http://www.apache.org/licenses/>

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## Zstd JNI

**Vendor:** Luben Karavelov

**Vendor Web Site:** <https://mvnrepository.com/artifact/com.github.luben/zstd-jni/1.3.2-2>

**Item Description:** JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM languages.

**License Web Site:** <https://opensource.org/licenses/bsd-license.php>

**License:** See “BSD License” on page 76.

## ZXing

**Vendor:** Google

**Vendor Web Site:** <https://opensource.google.com/projects/zxing>

**Item Description:** Barcode image processing library.

**License Web Site:** <http://www.apache.org/licenses/>

**License:** See “Apache License v2.0” on page 73.

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Version 2.0, January 2004

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## **Telerik End User License Agreement for DevCraft Complete**

(Last Updated September 19th, 2016)

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Article I of this Agreement contains defined terms.

Article II of this Agreement governs the licensing of UI for ASP.NET AJAX, UI for ASP.NET Core, UI for JSP, UI for PHP, UI for WinForms, UI for Silverlight, UI for WPF, UI for Windows Phone, UI for Windows Universal, Kendo UI Professional, server wrappers for Microsoft’s ASP.NET MVC framework, Telerik Reporting and Telerik Report Designer.

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Except as otherwise provided herein, each party expressly undertakes to retain in confidence all information and know-how transmitted or disclosed to it that the disclosing party has identified as being proprietary and/or confidential or that, by the nature of the circumstances surrounding the disclosure, ought in good faith to be treated as proprietary and/or confidential, and expressly undertakes to make no use of such information and know-how except under the terms and during the existence of this Agreement. However, neither party shall have an obligation to maintain the confidentiality of information that (i) it received rightfully from a third party without an obligation to maintain such information in confidence; (ii) the disclosing party has disclosed to a third party without any obligation to maintain such information in confidence; (iii) was known to the receiving party prior to its disclosure by the disclosing party; or (iv) is independently developed by the receiving party without use of the confidential information of the disclosing party. Further, either party may disclose confidential information of the other party as required

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## **13 Entire Agreement**

This Agreement shall constitute the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior and contemporaneous communications regarding the subject matter hereof. Use of any purchase order or other Licensee document in connection herewith shall be for administrative convenience only and all terms and conditions stated therein shall be void and of no effect. The terms and conditions contained in this Agreement shall prevail over any inconsistent provisions in any form or other paper submitted by Licensee. In cases where this license is being obtained through an approved third party, these terms shall supersede any third party license or purchase agreement.

## **14 No Assignment**

You may not assign, sublicense, sub-contract, or otherwise transfer this Agreement, or any rights or obligations under it, without Telerik's prior written consent.

## **15 Survival**

Any provisions of the Agreement containing license restrictions, warranties and warranty disclaimers, confidentiality obligations, limitations of liability and/or indemnity terms, and any provision of the Agreement which, by its nature, is intended to survive shall remain in effect following any termination or expiration of the Agreement.

## **16 Severability**

If a particular provision of this Agreement is terminated or held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, this Agreement shall remain in full force and effect as to the remaining provisions. This Agreement represents the entire understanding between the parties with respect to the subject matter.

## **17 Force Majeure**

Neither party shall be deemed in default of this Agreement if failure or delay in performance is caused by an act of God, fire, flood, severe weather conditions, material shortage or unavailability of transportation, government ordinance, laws, regulations or restrictions, war or civil disorder, or any other cause beyond the reasonable control of such party.

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(Last Updated July 16th, 2014)

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## WalkMe End User License Agreement

- The following are the terms and conditions for use of the WalkMe service described herein (the “Service”) between ‘WalkMe.com’ and you (either an individual or a legal entity that you represent as an authorized employee or agent) (“You”). Please read them carefully. BY CLICKING THE “I ACCEPT” BUTTON, COMPLETING THE REGISTRATION PROCESS AND/OR USING THE SERVICE, YOU ARE STATING THAT YOU ARE ELIGIBLE FOR AN ACCOUNT AND THAT YOU AGREE TO BE BOUND BY ALL OF THESE TERMS AND CONDITIONS OF THE SERVICE (“AGREEMENT”). The Service is offered to you conditioned on your acceptance without modification of the terms, conditions, and notices contained herein.
- These terms and conditions also include our Privacy Policy and our website Terms of Service standards. In addition to the terms and conditions hereunder, the Service will be provided according to the information you provide and options you select in your Order Form. Additional terms may apply to particular Services or Service options, as described in the Order Form. The Service will be provided according to WalkMe then-current privacy policy (“Privacy Policy”) and the website’s terms of service (“Terms of Service”). You can find them both on WalkMe’s website. Current terms are located at: WalkMe Privacy Policy and on WalkMe Terms of Service. This license agreement, the Privacy Policy, the Terms of Service and the Order Form (including any service descriptions referenced in the Order Form) are referred to, together, as this “Agreement”.
- The Service is provided without charge and may change its fees and payment policies for the Service from time to time. The changes to the fees or payment policies are effective upon your acceptance of such changes, which will be posted on the WalkMe website. Unless otherwise stated, all fees are quoted in U.S. Dollars. Any outstanding balance becomes immediately due and payable upon termination of this Agreement for any reason and any collection expenses (including attorneys’ fees) incurred by WalkMe will be included in the amount owed, and may be charged to the credit card or other billing mechanism associated with your account.
- To register for the Service, you must complete the registration process by providing WalkMe with current, complete and accurate information as prompted by the registration form, including your e-mail address (username) and password. You shall protect your passwords and take full responsibility for your own, and third party, use of your accounts. You are solely responsible for any and all activities that occur under Your Account. You agree to notify WalkMe immediately upon learning of any unauthorized use of Your Account or any other breach of security. From time to time, WalkMe’s (or its wholly-owned subsidiaries’) support staff may log in to the Service under Your customer password in order to maintain or improve service, including to provide you assistance with technical or billing issues. You hereby acknowledge and consent to such access.

- As a condition of use, you promise not to use the Service or the Data for any purpose that is unlawful or prohibited by these Terms of Service, or any other purpose not reasonably intended by WalkMe. By way of example, and not as a limitation, you agree not to use the Services:
  - to abuse, harass, threaten, impersonate or intimidate any third parties;
  - in any manner that is infringing, libelous, defamatory, obscene, pornographic, abusive, offensive or otherwise violates any law or right of any third party;
  - For any illegal or unauthorized purpose. You agree to comply with all local laws regarding online conduct and acceptable content;
  - To post or transmit, or cause to be posted or transmitted, any communication or solicitation designed or intended to obtain password, account, or private information from any WalkMe user or any other third party;
- The Site and the Service may allow you to upload copyrighted materials such as any files and materials attached or otherwise connected thereto (the “Content”). As long as your Content is subject to the applicable copyright law, such User Generated Material shall remain at all times, and to the extent permitted by law, your sole and exclusive property. You understand and agree that you are solely responsible for your Content and the consequences of posting or publishing such material. You represent and warrant that you have (and will continue to have) all necessary licenses, rights, consents, and permissions which are required to use and to enable WalkMe to use your Content. You agree that you will not post or upload any Content which is unlawful for you to possess, post or upload in the country in which you are resident, or which it would be unlawful for WalkMe to use or possess in connection with the Site and Service. WalkMe explicitly reserves the right to remove the Content without a prior notice, at its sole discretion.

When you upload, post or disseminate Content on the Site and/or through the Service, you grant WalkMe an irrevocable, perpetual, non-exclusive, royalty-free, transferable, assignable, sub-licensable and worldwide license, to use, reproduce, distribute, prepare derivative works of, display, make available to the public and perform that Content, whether through the Internet, any mobile device or otherwise, in any media formats and through any media channels known today and developed in the future.

You hereby grant WalkMe a limited, non-exclusive, fully paid-up, royalty free, worldwide right to use your registered and unregistered trademarks, service marks, trade dress, graphics or logos (“Publisher Marks”) in any of the following: on the Site, any WalkMe blog or newsletter; on any business development, commercial sales materials, or press releases; as any part of the Service; or in any other reasonable manner that a Publisher might expect WalkMe to use its Publisher Marks.

- WalkMe is not obligated in any way to assure that the M-Tutorials delivered by WalkMe will work without any problems, including problems which may cause dissatisfaction by any end user or yourself.
- WalkMe, and other WalkMe marks, trade names, graphics, logos, designs, page headers, button icons, scripts, and service names comprise registered and/or unregistered trademarks, service marks and trade dress of WalkMe in the U.S. and/or other countries (the ” WalkMe Marks”). Other trademarks, service marks and trade names used on the Service are the property of their respective owners. Without WalkMe’s prior written authorization, you agree not to display or use in any manner the WalkMe Marks; however, a Publisher may write about its use of the Service at any time without such authorization, so long as Publisher sends the blog post or the content it has written to WalkMe prior to or concurrent with publishing thereof.
- The Services under this website are being licensed to you on a personal, limited, temporary, revocable (pursuant to the terms hereof), non-exclusive, non assignable and non-transferable basis by WalkMe, with charge, and is provided to you on an “AS IS” basis, for the sole purpose of using the Services as provided hereunder, and only for lawful purposes.

- WalkMe may make changes to these terms and conditions, at its sole discretion, from time to time by publishing them on the website, and without providing any special notice. Your continued use of the Service indicates your acceptance of any such updated Agreement terms. You may be asked to click to accept updated terms, and if so, then your failure or refusal to do so will allow WalkMe to terminate this Agreement and stop providing the Service to you. If you wish to cancel any prepaid Service due to a material change in the Agreement, you may do so by notifying WalkMe no later than 10 business days after a change to this Agreement was published on the website, and such notice must identify the change and the reason for your termination.
- The term of this Agreement will be as described in the Order Form. If the Order Form indicates an initial term, but not a specified renewal term, and you continue to use the Service after the initial term, this Agreement will automatically extend month to month, unless and until either you or WalkMe gives notice no less than one month prior to termination. Either you or WalkMe may terminate this Agreement if a material breach by the other party occurs and remains uncured 30 days after notice of that breach. WalkMe, in its sole discretion, may terminate your access to and use of the Service immediately if you take actions or fail to act, in a way that WalkMe reasonably believes may cause it liability or if the provision of the Service to you by WalkMe is, in WalkMe's sole opinion, no longer commercially viable.
- There are license fees for the Service. The license fees for the Service will be as described in the Order Form. Those fees do not include sales or other taxes. If any taxes are due, you will be responsible to pay them, and WalkMe will itemize them for you upon request. You must provide a valid credit card number to pay your fees. If the term of this Agreement renews, as described in the Agreement, WalkMe may automatically charge your credit card for fees for the renewal period. If your credit card expires or is declined, WalkMe may stop providing the Service to you until you provide a valid credit card number, and may charge you any fees or costs that arise. If WalkMe instead chooses to continue providing the Service to you, you will be responsible for paying any fees due for that period. All fees are non-refundable. Fees are not based on usage, so also if users do not use the Service, fees will not be refundable.
- Our liability is limited so we can provide you with attractive prices. WalkMe's AGGREGATE LIABILITY UNDER THE AGREEMENT WILL NOT EXCEED THE AMOUNTS ACTUALLY RECEIVED BY WalkMe IN THE 12 MONTH PERIOD IMMEDIATELY PRECEDING THE EVENT GIVING RISE TO THE CLAIM. WalkMe (INCLUDING ITS SHAREHOLDERS, DIRECTORS AND OFFICE HOLDERS) AND ITS LICENSORS OR SUPPLIERS WILL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION LOST PROFITS, WHETHER OR NOT FORESEEABLE AND GOODWILL) RELATED TO THE SERVICE, EVEN IF THEY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR HAD THE ABILITY TO BE AWARE OF SUCH DAMAGE. YOU ACKNOWLEDGE THAT THE PRICE OF THE WalkMe SERVICE IS BASED ON THIS LIMITATION.
- You agree not to reverse engineer, decompile, disassemble, alter, make copies, translate, create derivative works from, allow the use, distribute, rent, transfer or provide others with the Service (either for consideration or not), or any information available on, derived or extracted from the Service, or any part thereof; block, disable or otherwise affect any advertisement, links to other sites and services, or other features that constitute an integral part of the Service; connect, use, attempt to connect or use in any way the Service, for any commercial or public purpose and any other purpose that is not for your private personal use in good faith and as explicitly offered on WalkMe's website; and incorporate, integrate or otherwise include the Service or any portion thereof into any other application, program or product.

- You acknowledge that you shall be solely responsible to acquire data connection services or any other services necessary for using the Service. This license agreement will be interpreted according to the laws of the state of Israel, without regard to its conflicts of law's provisions. Any disputes, actions, claims or causes of action arising out of or in connection with this license agreement or the Service will be subject to the exclusive jurisdiction of the state municipal courts located in Tel Aviv, Israel. The failure of WalkMe to enforce any right or provision in this license agreement will not constitute a waiver of such right or provision. If any provision of this license agreement is held to be invalid or unenforceable, the other provisions of this license agreement will remain enforceable and the invalid or unenforceable provision will be deemed modified so that it is valid and enforceable to the maximum extent permitted by law. Any delay in the performance of any duties or obligations of either party (except the payment of money owed) will not be considered a breach of this license agreement if such delay is caused by a labor dispute, shortage of materials, fire, earthquake, flood, war, terrorism, or any other event beyond the control of such party. Your relationship to WalkMe is that of an independent contractor, and neither party is an agent or partner or employee of the other. Upon expiration or termination of this license agreement, you shall promptly discontinue use of the Services, and delete the software from wherever it was installed. The provisions of this license agreement addressing restrictions on use, disclaimers of representations and warranties, indemnity obligations, intellectual property, limitation on liability, and governing law shall survive the termination or expiration of this license agreement, for whatever reason.

## WTFPL

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