Advanced Weather Interactive Processing System (AWIPS)
Software Continuous Technology Refresh (SW CTR)

The following software products were developed by Raytheon:
    CAVE (Common AWIPS Visualization Environment) software
    EDEX (Enterprise Data Exchange) software

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Contractor Name: Raytheon Company
Contractor Address:
    2120 South 72nd Street
    Suite 900
    Omaha, NE 68124

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Software name	Version	License	Description	URL
ActiveMQ	5.12.1	Apache 2.0	Apache ActiveMQ ™ is the most popular and powerful open source messaging and Integration Patterns server	http://activemq.apache.org/
ActiveMQ	5.9.1	Apache 2.0	Apache ActiveMQ ™ is the most popular and powerful open source messaging and Integration Patterns server	http://activemq.apache.org/
Ant-Contrib	1.0b3	Apache 1.1	Additional useful tasks and types for Ant	http://sourceforge.net/projects/ant-contrib/files/
Antlr	2.7.7	ANTLR 3 License	Parser generator	http://www.antlr.org/
AOP Alliance	1.0.0	public domain	The AOP Alliance project is a joint open-source project between several software engineering people who are interested in AOP and Java	http://aopalliance.sourceforge.net/
Apache Ant	1.9.6	Apache 2.0	Java-based build tool	http://ant.apache.org/
Apache batik	1.8	Apache 2.0		http://xmlgraphics.apache.org/batik/
Apache Bean Scripting Framework (BSF)	N/A	Apache 2.0	Bean Scripting Framework (BSF) is a set of Java classes which provides scripting language support within Java applications, and access to Java objects and methods from scripting languages.	http://commons.apache.org/proper/commons-bsf/
Apache Camel	2.16.0	Apache 2.0	Camel empowers you to define routing and mediation rules in a variety of domain-specific languages, including a Java-based Fluent API, Spring or Blueprint XML Configuration files, and a Scala DSL.	https://camel.apache.org/
Apache Commons Beanutils	1.8.2	Apache 2.0	Java API wrappers	http://commons.apache.org/proper/commons-beanutils/index.html
Apache Commons Beanutils	1.8.3	Apache 2.0	Java API wrappers	http://commons.apache.org/beanutils/

Apache Commons Cli	1.2	Apache 2.0	Apache Common Libraries - provides an API for parsing command line options passed to programs	http://commons.apache.org/proper/commons-cli/
Apache Commons Cli	2.0 – Snapshot	Apache 2.0	Apache Common Libraries - provides an API for parsing command line options passed to programs	http://commons.apache.org/proper/commons-cli/
Apache Commons Codec	1.10	Apache 2.0	Apache Common Libraries - General encoding/decoding algorithms (for example phonetic, base64, URL).	http://commons.apache.org/proper/commons-codec
Apache Commons Codec	1.3.0	Apache 2.0	Apache Common Libraries - General encoding/decoding algorithms (for example phonetic, base64, URL).	http://commons.apache.org/proper/commons-codec
Apache Commons Collections	3.2	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-collections/
Apache Commons Compress	1.10	Apache 2.0	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 and Z files	http://archive.apache.org/dist/commons/compress/source/
Apache Commons Configuration	1.10	Apache 2.0	The Commons Configuration software library provides a generic configuration interface which enables a Java application to read configuration data from a variety of sources.	http://commons.apache.org/proper/commons-configuration/index.html
Apache Commons Configuration	1.8	Apache 2.0	The Commons Configuration software library provides a generic configuration interface which enables a Java application to read configuration data from a variety of sources.	http://commons.apache.org/proper/commons-configuration/index.html
Apache Commons-digester	1.8.1	Apache 2.0	The Digester package lets you configure an XML -> Java object mapping module, which triggers certain actions called rules whenever a particular pattern of nested XML elements is recognized.	http://commons.apache.org/proper/commons-digester/

Apache Commons Httpclient	3.0.1	Apache 2.0	The HttpClient component supports the client-side of RFC 1945 (HTTP/1.0) and RFC 2616 (HTTP/1.1)several related specifications (RFC 2109 (Cookies) , RFC 2617 (HTTP Authentication)and provides a framework by which new request types (methods) or HTTP extensions can be created easily	http://hc.apache.org/httpclient-3.x/
Apache Commons Httpclient	3.1	Apache 2.0	The HttpClient component supports the client-side of RFC 1945 (HTTP/1.0) and RFC 2616 (HTTP/1.1)several related specifications (RFC 2109 (Cookies) , RFC 2617 (HTTP Authentication)and provides a framework by which new request types (methods) or HTTP extensions can be created easily	http://hc.apache.org/httpclient-3.x/
Apache Commons IO	1.3.1	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-io/
Apache Commons IO	2.4	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-io/
Apache Commons Lang	2.4	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-lang/
Apache Commons Lang	2.6	Apache 2.0	Lang provides a host of helper utilities for the java.lang API, notably String manipulation methods, basic numerical methods, object reflection, concurrency, creation and serialization and System properties	http://commons.apache.org/proper/commons-lang/

Apache Commons Lang	3.4	Apache 2.0	The standard Java libraries fail to provide enough methods for manipulation of its core classes. Apache Commons Lang provides these extra methods. Lang provides a host of helper utilities for the java.lang API, notably String manipulation methods, basic numerical methods, object reflection, concurrency, creation and serialization and System properties.	http://commons.apache.org/proper/commons-lang/
Apache Commons Lang3	3.4	Apache 2.0	The standard Java libraries fail to provide enough methods for manipulation of its core classes. Apache Commons Lang provides these extra methods. Lang provides a host of helper utilities for the java.lang API, notably String manipulation methods, basic numerical methods, object reflection, concurrency, creation and serialization and System properties.	http://commons.apache.org/proper/commons-lang/
Apache Commons Logging	1.1	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-logging/
Apache Commons Management	1.0	Apache 2.0	Apache Common Libraries	N/A
Apache Commons Net	1.4.1	Apache 2.0	Apache Commons Net™ library implements the client side of many basic Internet protocols. The purpose of the library is to provide fundamental protocol access, not higher-level abstractions	http://commons.apache.org/proper/commons-net/index.html
Apache Commons Net	3.3	Apache 2.0	Apache Commons Net™ library implements the client side of many basic Internet protocols. The purpose of the library is to provide fundamental protocol access, not higher-level abstractions	http://commons.apache.org/proper/commons-net/index.html

Apache Commons-Pool	1.6	Apache 2.0	The Apache Commons Pool open source software library provides an object-pooling API and a number of object pool implementations	http://commons.apache.org/proper/commons-pool/
Apache Commons-Pool2	2.4.2	Apache 2.0	The Apache Commons Pool open source software library provides an object-pooling API and a number of object pool implementations. Version 2 of Apache Commons Pool contains a completely re-written pooling implementation compared to the 1.x series. In addition to performance and scalability improvements, version 2 includes robust instance tracking and pool monitoring	http://commons.apache.org/proper/commons-pool/
Apache Commons-SSL	0.3.4	Apache 2.0	We're calling this library Not-Yet-Commons-SSL since we have the intention of one day becoming an official Apache project. Not-Yet-Commons-SSL was originally developed by Credit Union Central of British Columbia	http://juliusdavies.ca/commons-ssl/
Apache Commons Validator	1.2.0	Apache 2.0	This package addresses issues to speed development and maintenance of validation rules	http://commons.apache.org/proper/commons-validator/index.html
Apache Commons VFS	2.0	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-vfs/index.html
Apache CXF	2.7.10	Apache 2.0	Apache CXF is an open source services framework. CXF helps you build and develop services using frontend programming APIs, like JAX-WS and JAX-RS	http://cxf.apache.org/
Apache CXF	2.7.18	Apache 2.0	Apache CXF is an open source services framework. CXF helps you build and develop services using frontend programming APIs, like JAX-WS and JAX-RS	http://cxf.apache.org/

Apache Derby	10.12.1.1	Apache 2.0	an Apache DB subproject, is an open source relational database implemented entirely in Java	http://db.apache.org/derby/releases/release-10.10.1.1.cgi
Apache HttpComponents Client	4.3.5	Apache 2.0	Designed for extension while providing robust support for the base HTTP protocol, the HttpClient component may be of interest to anyone building HTTP-aware client applications such as web browsers, web service clients, or systems that leverage or extend the HTTP protocol for distributed communication.	http://mvnrepository.com/artifact/commons-httpclient/commons-httpclient/3.1
Apache HttpComponents Httpmime	4.1.2	Apache 2.0	This module provides support for MIME multipart encoded entities	http://hc.apache.org/httpcomponents-client-ga/
Apache Jackrabbit Webdav	1.5.6	Apache 2.0	This is the WebDAV Library component of the Apache Jackrabbit project. This component provides interfaces and common utility classes used for building a WebDAV server or client	http://jackrabbit.apache.org/jackrabbit-webdav-library.html
Apache log4j	1.2.16	Apache 2.0	Logging Component used by Commons Logging	http://logging.apache.org/log4j/1.2/index.html
Apache log4j extras	1.0	Apache 2.0		http://logging.apache.org/log4j/companions/extras/index.html
Apache Mime4j	0.7	Apache 2.0	Mime4j provides a parser, MimeStreamParser, for e-mail message streams in plain rfc822 and MIME format	http://james.apache.org/mime4j/index.html
Apache qpid	0.32	Apache 2.0	qpid python messaging API	http://qpid.apache.org/releases//
Apache qpid	0.32 (rtn modified)	Apache 2.0	qpid python messaging API	http://qpid.apache.org/releases//
Apache Tika	1.0	Apache 2.0	The Apache Tika toolkit detects and extracts metadata and structured text content from various documents using existing parser libraries	http://tika.apache.org/

Apache Xalan-Java	2.7.2	Apache 2.0	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.	https://xalan.apache.org/xalan-j/index.html
Apache XMLBeans	2.6.0	Apache 2.0	XMLBeans is a tool that allows you to access XML in a Java friendly way; also found in apache cxf	http://xmlbeans.apache.org/
Apache XML Resolver	1.2	Apache 2.0	N/A	http://xerces.apache.org/xml-commons/components/resolver/
ASM	1.5.3	Eugene Kuleshov Copyright 2004	ASM is an all purpose Java bytecode manipulation and analysis framework. It can be used to modify existing classes or dynamically generate classes, directly in binary form	http://asm.ow2.org/
ASM	3.1.0	INRIA, France Telecom (c) 2000-2005	ASM is an all purpose Java bytecode manipulation and analysis framework. It can be used to modify existing classes or dynamically generate classes, directly in binary form	http://asm.ow2.org/
Bcprov-jdk15	1.46	The Legion of the Bouncy Castle (c) 2000-2012	The Bouncy Castle Crypto package is a Java implementation of cryptographic algorithms	http://www.bouncycastle.org/latest_releases.html
Beanshell	2.0b4	LGPL 2.1	BeanShell (bsh) is a small, free, embeddable Java source interpreter with object scripting language features, written in Java. BeanShell dynamically executes standard Java syntax and extends it with common scripting conveniences such as loose types, commands, and method closures like those in Perl and JavaScript.	http://www.beanshell.org/home.html

Berkeley DB Java Edition	4.0.92	Oracle (c) 1990-2009	Oracle Berkeley DB Java Edition is an open source, embeddable, transactional storage engine written entirely in Java	http://www.oracle.com/technetwork/products/berkeleydb/overview/index.html
Boilerpipe	1.1.0	Apache 2.0	The boilerpipe library provides algorithms to detect and remove the surplus clutter (boilerplate, templates) around the main textual content of a web page	http://code.google.com/p/boilerpipe/
Cglib	2.1.3	Apache 2.0	cglib is a powerful, high performance and quality Code Generation Library, It is used to extend JAVA classes and implements interfaces at runtime	http://cglib.sourceforge.net/
CherryPy	3.1.2	BSD	CherryPy is a pythonic, object-oriented HTTP framework.	http://www.cherrypy.org/
dods	1.1.7 (rtn modified)	Secret Labs (c) 1997-2011; Fredrik Lundh (c) 1995-2011; LGPL	Dods is a deat delivery client	http://www.opendap.org/pub/dods/
dom4j	1.6.1	MetaStuff Ltd. (c) 2001-2005	dom4j is an easy to use, open source library for working with XML, XPath and XSLT on the Java platform using the Java Collections Framework and with full support for DOM, SAX and JAXP	http://www.dom4j.org/
Eclipse	N/A	Eclipse Public License 1.0		
Eclipse Jface	3.8.0.v20120912-135020	Eclipse Public License 1.0	jface libraries (for running jface dialogs in the tests project)	http://www.eclipse.org/
Eclipse SDK	3.8.2	Eclipse Public License 1.0	eclipse.org	
Eclipse Standard Widget Toolkit (SWT)	3.4.1.v3452b	Eclipse Public License 1.0	SWT is an open source widget toolkit for Java designed to provide efficient, portable access to the user-interface facilities of the operating systems on which it is implemented.	http://www.java2s.com/Code/Jar/o/Downloadorgeclipseswtgtklinuxx86341v3452bjar.htm

Eclipse Standard Widget Toolkit (SWT)	3.4.2.v3452b	Eclipse Public License 1.0	SWT is an open source widget toolkit for Java designed to provide efficient, portable access to the user-interface facilities of the operating systems on which it is implemented.	http://www.filewatcher.com/m/org.eclipse.swt_3.4.2.v3452b.jar.pack.gz.14345-0.html
ehcache	1.3.0	Apache 2.0	Ehcache is an open source, standards-based cache used to boost performance, offload the database and simplify scalability.	http://www.ehcache.org/
ESAPI (OWASP)	2.0.1	The OWASP Foundation (c) 2007	ESAPI (The OWASP Enterprise Security API) is a free, open source, web application security control library that makes it easier for programmers to write lower-risk applications. The ESAPI libraries are designed to make it easier for programmers to retrofit security into existing applications	https://www.owasp.org/index.php/Project_Information:_OWASP_Enterprise_Security_API_Project
gdal	1.9.2	Gdal License (MIT style)	GDAL is a translator library for raster geospatial data formats	http://www.gdal.org/
gdal	1.9.2-4	Frank Warmerdam (c) 2000 (MIT Based License)	GDAL is a translator library for raster geospatial data formats	got the gdal jar through http://yum.postgresql.org/9.3/redhat/rhel-6-x86_64/gdal-java-1.9.2-4.el6.x86_64.rpm ; http://www.gdal.org/ ; http://trac.osgeo.org/gdal/wiki/GdalOgrInJava
GEOS	3.4.2	LGPL 2.1	Geometry Engine - Open Source is a C++ port of the Java Topology Suite (JTS)	http://trac.osgeo.org/geos/
GeoTools	10.5	LGPL 2.1		http://www.geotools.org/
GeoTools Java API	2.6.4	LGPL 2.1		http://geotools.org/about.html
Geronimo Activation	1.1 spec 1.1	Apache 2.0	Geronimo Activation implements Content Handlers for use in conjuction with the Java Activation Framework	http://geronimo.apache.org/maven/server/modules/geronimo-activation/
Geronimo Activation	N/A	Apache 2.0	Geronimo Activation implements Content Handlers for use in conjuction with the Java Activation Framework	http://geronimo.apache.org/maven/server/modules/geronimo-activation/

Geronimo Annotation	1.0 spec 1.1.1	Apache 2.0	N/A	
Geronimo-jms	1.1 spec 1.1.1	Apache 2.0	The goal of the Geronimo project is to produce a server runtime framework that pulls together the best Open Source alternatives to create runtimes that meet the needs of developers and system administrators.	http://geronimo.apache.org/apache-geronimo-v11-release.html
Geronimo JTA; javax transaction	1.0.1B spec 1.0.1	Apache 2.0	N/A	
Glazed Lists	1.8.0	LGPL 2.1; Mozilla Public License v1.0	just as I was getting ready to gouge out my eyes in sheer frustration, glazedlists comes along and makes them worth having again	http://www.glazedlists.com/
Gluegen	N/A	Sun Microsystems, Inc (c) 2003-2005	GlueGen is a tool which automatically generates the Java and JNI code necessary to call C libraries	http://jogamp.org/gluegen/www/
Gnu-getopt	1.0.6	LGPL 3.0	This is a Java port of GNU getopt, a class for parsing command line arguments passed to programs	http://www.urbanophile.com/arenn/hacking/download.html
Gnu-regexp	1.1.4	LGPL 2.1	GNU implementation of regular expressions	http://savannah.gnu.org/projects/gnu-regexp
GRIB Java Decoder	8.0	LGPL 2.1	The GRIB Java decoder works on a as needed approach to only convert the data that is requested therefore avoiding the large output file sizes.	http://www.unidata.ucar.edu/downloads/decoders/index.jsp
Groovy	1.8.6	Apache 2.0	is an agile and dynamic language for the Java Virtual Machine	http://groovy.codehaus.org/
Groovy	2.1.3	Apache 2.0	is an agile and dynamic language for the Java Virtual Machine	http://groovy.codehaus.org/

guava	18.0	Apache 2.0	The Guava project contains several of Google's core libraries that we rely on in our Java-based projects: collections, caching, primitives support, concurrency libraries, common annotations, string processing, I/O, and so forth.	http://code.google.com/p/guava-libraries/wiki/Release11
h2	1.3.171	Eclipse Public License 1.0	H2 is an SQL database engine written in Java that implements the JDBC API.	http://h2database.com/html/main.html
h5py	1.3.0	Andrew Collette (c) 2008	HDF5 for Python	http://code.google.com/p/h5py/
Hamcrest	1.3	Hamcrest.org (c) 2000-2006	Provides a library of matcher objects (also known as constraints or predicates) allowing 'match' rules to be defined declaratively, to be used in other frameworks	http://code.google.com/p/hamcrest/
hdf5	1.8.4-patch1	HDF5 Software Library and Utilities	Core HDF5 APIs	http://www.hdfgroup.org/hdf-java-html/ ftp://ftp.hdfgroup.org/HDF5/hdf-java/bin
Hibernate	4.2.15	LGPL 2.1	Data Access Layer	https://github.com/hibernate/hibernate-jpa-api
Httpd	2.2.3	Apache 2.0	The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows NT. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards	http://httpd.apache.org/
Imageio-ext	1.1.8	LGPL 3.0		
Inno	5.5.4	Inno Setup License (c) Jordan Russell 1997-2013 & Martijn Laan (c) 2000-2013	Inno Setup is a free installer for Windows programs	https://github.com/jrsoftware/issrc/releases
Jackson	1.9.13	Apache 2.0	Jackson is a high-performance JSON processor.	http://search.maven.org/

JAI	1.1.3 (rtn modified)	Sun Binary Code License with Java Advanced Imaging API v 1.1.3 Supplement	The Java Advanced Imaging API provides a set of object-oriented interfaces that support a simple, high-level programming model which lets you manipulate images easily	http://www.oracle.com/technetwork/java/index.html
JAI - Image I/O	1.1 (rtn modified)	BSD	This is the parent project for all Java Advanced Imaging Image I/O Tools related sub-projects on java.net.	https://java.net/projects/jai-imageio
Jakarta Oro	2.0.8	Apache 1.1	The Jakarta-ORO Java classes are a set of text-processing Java classes that provide Perl5 compatible regular expressions, AWK-like regular expressions, glob expressions, and utility classes for performing substitutions, splits, filtering filenames, etc.	http://jakarta.apache.org/oro/
Jasper	1.900.1	Jasper License v2.0	The JasPer Project provides a free software-based reference implementation of the codec specified in the JPEG-2000 Part-1 standard (i.e., ISO/IEC 15444-1).	http://tomcat.apache.org/tomcat-4.1-doc/jasper-howto.html
Java API for Kml (OpenGIS)	2.2.0	Micromata GmbH (c) 2009	The objective of the Java API for KML is to provide Java interfaces for easy access to KML (Keyhole Markup Language) data	http://code.google.com/p/javaapiforkml/
JavaBeans Activation Framework	1.1.1	Sun Microsystems Inc Entitlement for JavaBeans Activation Framework 1.1	With the JavaBeans Activation Framework standard extension, developers who use Java technology can take advantage of standard services to determine the type of an arbitrary piece of data, encapsulate access to it, discover the operations available on it, and to instantiate the appropriate bean to perform said operation(s).	http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-java-plat-419418.html#jaf-1.1-fr-oth-JPR
Java JDK	7u65	Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX - 2 April 2013	JDK: (Java Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.	http://www.oracle.com/technetwork/java/javase/downloads/index.html

Java JDK	7u80	Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX - 2 April 2013	JDK: (Java Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.	http://www.oracle.com/technetwork/java/javase/downloads/index.html
JavaMail	1.4.1	Sun Microsystems Inc Entitlement for JavaMail 1.4	The JavaMail 1.4.1 release contains several bug fixes, performance improvements, and minor enhancements. It also contains EXPERIMENTAL support for the IMAP IDLE command, which has been requested for many years.	
JavaMail	1.4.3	Sun Microsystems, Inc. License Agreement for JavaMail 1.4.3	Classes modeling a mail system.	http://www.oracle.com/technetwork/java/index-138643.html
Javax Servlet	2.5.0.v2009103013 33	CDDL 1.0		http://ebr.springsource.com/repository/app/bundle/version/detail?name=javax.servlet&version=3.0.0.v201103241009
Javax Servlet	3.0_spec-1.0	CDDL 1.0		http://ebr.springsource.com/repository/app/bundle/version/detail?name=javax.servlet&version=3.0.0.v201103241009
Javax Servlet Source	2.5.0.v2009103013 33	CDDL 1.0		http://ebr.springsource.com/repository/app/bundle/version/detail?name=javax.servlet&version=3.0.0.v201103241009
Jaxb (Javax xml bind)	2.1.9	CDDL 1.0	The Java TM Architecture for XML Binding (JAXB) provides an API and tools that automate the mapping between XML documents and Java objects.	
Jaxen	1.1.4	Werken Company (c) 2003-2006	The jaxen project is a Java XPath Engine. jaxen is a universal object model walker, capable of evaluating XPath expressions across multiple models. Currently supported are dom4j, JDOM, and DOM.	

Jaxen	1.1-beta-7	Werken Company (c) 2003-2006	The jaxen project is a Java XPath Engine. jaxen is a universal object model walker, capable of evaluating XPath expressions across multiple models. Currently supported are dom4j, JDOM, and DOM.	
jbzip2	0.9.1	Matthew J Francis (c) 2010 (MIT License)	jbzip2 is a Java bzip2 compression/decompression library. It can be used as a replacement for the Apache bzip2	http://code.google.com/p/jbzip2/
JDBC3 PostgreSQL	8.3-603	PostgreSQL Global Development Group Copyright (BSD license)	The official JDBC connector for PostgreSQL, the PostgreSQL JDBC Driver uses pure Java (Type IV) independent code to connect Java programs to PostgreSQL databases. PostgreSQL JDBC Driver offers methods for a variety of uses. For example, you can specify several properties for driver specific behavior when setting up the connection to your database, and you can load either a PostgreSQL specific connector, or a connector that supports multiple database types	
JDBC4 PostgreSQL	9.3-1102	PostgreSQL Global Development Group Copyright (BSD license)		http://download.openpkg.org/components/cache/jsqsh/ ; http://jdbc.postgresql.org/download.html
Jdom		Jason Hunter & Brett McLaughlin (c) 2000-2004	A Java representation of an XML document. Provides a method of representing a XML document for easy and efficient reading, manipulation, and writing. It has a straightforward API and serves as an alternative to DOM and SAX.	http://www.jdom.org/dist/binary/archive/

Jdom	1.0	Jason Hunter & Brett McLaughlin (c) 2000-2004	A Java representation of an XML document. Provides a method of representing a XML document for easy and efficient reading, manipulation, and writing. It has a straightforward API and serves as an alternative to DOM and SAX.	http://www.jdom.org/dist/binary/archive/
Jep	3.4.1	zlib-libpng license	Java to Python interface (Java Embedded Python); Updated jep jar to warn when reusing threads	http://jepp.sourceforge.net/
Jetty	8.1.15.v2 0140411	Apache 2.0; Eclipse Public License 1.0	Jetty provides a Web server and javax.servlet container, plus support for SPDY, WebSocket, OSGi, JMX, JNDI, JAAS and many other integrations.	http://download.eclipse.org/jetty/stable-8/dist/
Jetty	9.0.7.v20 131107	Apache 2.0; Eclipse Public License 1.0	Jetty provides a Web server and javax.servlet container, plus support for SPDY, WebSocket, OSGi, JMX, JNDI, JAAS and many other integrations.	http://download.eclipse.org/jetty/stable-8/dist/
jfreechart	1.0.19	LGPL 2.1; (C)opyright 2000-2014, by Object Refinery Limited and Contributors	JFreeChart is a free 100% Java chart library that makes it easy for developers to display professional quality charts in their applications.	http://www.jfree.org/jfreechart/
Jgoodies Forms	1.2.0	JGoodies Karsten Lentzsch (c) 2002-2009	The JGoodies Forms framework helps you lay out and implement elegant Swing panels quickly and consistently	http://www.jgoodies.com/freeware/libraries/forms/
jna	3.4.1	LGPL 2.1	JNA provides Java programs easy access to native shared libraries (DLLs on Windows) without writing anything but Java code—no JNI or native code is required. This functionality is comparable to Windows' Platform/Invoke and Python's ctypes. Access is dynamic at runtime without code generation.	http://www.jarvana.com/jarvana/browse/com/sun/jna/jna/3.0.9/?d=y&by=numJsp&order=des

jna	4.1.0	Apache 2.0	JNA provides Java programs easy access to native shared libraries (DLLs on Windows) without writing anything but Java code—no JNI or native code is required. This functionality is comparable to Windows' Platform/Invoke and Python's ctypes. Access is dynamic at runtime without code generation.	https://github.com/twall/jna
jnaerator	0.9.3	LGPL 3.0	JNAerator (pronounce 'generator') simply parses C / C++ & Objective-C headers and generates the corresponding BridJ, JNA and Rococoa Java interfaces.	
Joda-Time	1.6	Apache 2.0	Joda-Time provides a quality replacement for the Java date and time classes	http://sourceforge.net/projects/joda-time/
Joda-Time	1.6.2	Apache 2.0	Joda-Time provides a quality replacement for the Java date and time classes	http://sourceforge.net/projects/joda-time/
jogl	1.1.1	JOGL License (BSD 2-clause)	Provides hardware-supported 3D graphics	http://jogamp.org/jogl/www/
Jrexx	1.1.1	LGPL 2.1	jrexx is a regular expression API for textual pattern matching based on the finite state automaton theory. It's matching algorithm is extremly fast and works with huge patterns and input texts. jrexx also offers set operations (union, intersection, difference, complement) for combination of automatons.	http://sourceforge.net/projects/jrexx/
JSR 275 Javax Measure	1.0-beta-2	JScience (c) 2007		http://docs.codehaus.org/display/GEOTOOLS/ Switch+from+JSR-108+to+JSR-275+for+Units
JSR 311	1.1.1	CDDL 1.0	This JSR will develop an API for providing support for RESTful(Representational State Transfer) Web Services in the Java Platform	http://www.jarvana.com/jarvana/archive-details/javax/ws/rs/jsr311-api/1.1.1/jsr311-api-1.1.1.jar

JUnit	N/A	Common Public License 1.0	Java Unit Test Framework	https://github.com/junit-team/junit/wiki/Download-and-Install
lapack	3.4.2	LAPACK License	LAPACK is written in Fortran 90 and provides routines for solving systems of simultaneous linear equations, least-squares solutions of linear systems of equations, eigenvalue problems, and singular value problems.	http://www.netlib.org/lapack/
ldm	6.11.5 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	Raytheon modified queue size	http://www.unidata.ucar.edu/software/ldm/
ldm	6.12.14 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	ASM #18765 - Increased retrans table arrays sizes in retrans.h	ftp://ftp.unidata.ucar.edu/pub/ldm/
ldm	6.12.6 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	Raytheon modified queue size	ftp://ftp.unidata.ucar.edu/pub/ldm/
ldm	6.12.9 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	Raytheon modified queue size	ftp://ftp.unidata.ucar.edu/pub/ldm/
Logback	1.1.2	LGPL 2.1; Eclipse Public License 1.0	Logback is intended as a successor to the popular log4j project, picking up where log4j leaves off	http://logback.qos.ch/download.html
LZF	Revision 3 (rtn modified)	Andrew Collette (c) 2008	The LZF filter provides high-speed compression with acceptable compression	
matplotlib	1.4.3	License Agreement for Matplotlib (based on PSF license)	matplotlib is a python 2D plotting library which produces publication quality figures in a variety of hardcopy formats and interactive environments across platforms	http://matplotlib.org/
maven	3.2.3	Apache 2.0	a tool that can now be used for building and managing any Java-based project	https://maven.apache.org/

Metadata Extractor	2.4.0-beta-1	public domain	What began as a simple utility to extract the date-taken from a digital still camera (DSC) Jpeg file is now a general metadata extraction framework. Support currently exists for Exif and Iptc metadata segments	http://drewnoakes.com/code/exif/
Mockito	1.9.0	Mockito Contributors (c) 2007	Mockito is a mocking framework that tastes really good	http://code.google.com/p/mockito/
mod wsgi	3.5	Apache 2.0	The mod_wsgi adapter is an Apache module that provides a WSGI compliant interface for hosting Python based web applications within Apache	http://rpm.pbone.net/index.php3/stat/4/idpl/16004234/dir/scientific_linux_6/com/mod_wsgi-3.2-1.el6.x
NetCDF Java	4.3.20 (rtn modified)	LGPL 2.1	This contains the BUFR splitter classes from netcdf-java version 4.3.20.	
NetCDF Java Library	1.3	LGPL 2.1	NetCDF (network Common Data Form) is a set of software libraries and machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data.	https://wiki.ucar.edu/plugins/recently-updated/changes.action?theme=sidebar&pageSize=10&startHandle=com.atlassian.confluence.pages.Attachment-54001762&authors=weingrub&spaceKeys=*&contentType=-mail,page,comment,blogpost,attachment,userinfo,spacedesc,personalspacedesc,status
NetCDF Java Library	4.2	LGPL 2.1	NetCDF (network Common Data Form) is a set of software libraries and machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data.	http://www.unidata.ucar.edu/downloads/netcdf/netcdf-java-2_2/index.jsp
NetCDF Java Library	4.2 (rtn modified)	Apache 2.0	BUFR tables for the NetCDF library	http://search.maven.org/#search|ga|1|bufr

NetCDF Java Library (with UI)	2.2.22	LGPL 2.1	The NetCDF-Java library implements a Common Data Model (CDM), a generalization of the NetCDF, OpenDAP and HDF5 data models. The library is a prototype for the NetCDF-4 project, which provides a C language API for the data access layer of the CDM, on top of the HDF5 file format.	
Netty	3.6.6	Apache 2.0	The Netty project is an effort to provide an asynchronous event-driven network application framework for rapid development of maintainable high-performance high-scalability protocol servers and clients, including its related out-of-the-box protocol extensions and tool suite.	http://code.google.com/p/opentsdb/downloads/detail?name=netty-3.5.1.Final.jar&can=4&q=
nlog4j	1.2.21	Apache 1.1	NLOG4J is a production-quality log4j-replacement with native SLF4J API support	
Nose	0.11.1	LGPL 2.1	nose extends the test loading and running features of unittest, making it easier to write, find and run tests	http://code.google.com/p/python-nose/
NumPy	1.9.2	John D. Hunter (c) 2002-2008	Numerical Python - Fundamental package needed for scientific computing with Python	http://www.numpy.org/
opendap2	1.0.0 (rtn modified)	Secret Labs (c) 1997-2011; Fredrik Lundh (c) 1995-2011; LGPL	OPeNDAP is a framework that simplifies all aspects of scientific data networking	http://www.opendap.org
Openfire	1.4.2	Apache 2.0	Monitoring Service - Monitors conversations and statistics of the server	http://www.igniterealtime.org/projects/openfire/plugins.jsp
OpenFire	3.10.2	Apache 2.0	Collaboration Server	http://www.igniterealtime.org/projects/openfire/index.jsp
OpenSAML	2.6.5	Apache 2.0	The OpenWS library provides a growing set of tools to work with web services at a low level	http://mvnrepository.com/artifact/org.opensaml/openws/1.4.2-1

PgAdmin 3	1.18.1	Pgadmin 3 (c) 2002-2009	pgAdmin III is the most popular and feature rich Open Source administration and development platform for PostgreSQL	http://www.pgadmin.org/
PMD	3.6	InfoEther, Inc. Copyright 2002 – 2005	PMD is a source code analyzer. It finds common programming flaws like unused variables, empty catch blocks, unnecessary object creation, and so forth. It supports Java, JavaScript, XML, XSL.	http://pmd.sourceforge.net/
PostGIS	2.0.6	GPL 2.0	Yeah. This was compiled from the 2.0.6 source but the name remains the same because someone is keeping their versions in too many places.	http://postgis.refractions.net/
PostgreSQL	9.3.10	PostgreSQL Global Development Group (c) 1996-2013 and The Regents of the University of California (c) 1994-1995	PostgreSQL is a powerful, open source object-relational database system	http://www.postgresql.org/download/
PostgreSQL	9.3.5	PostgreSQL Global Development Group (c) 1996-2013 and The Regents of the University of California (c) 1994-1995	PostgreSQL is a powerful, open source object-relational database system	http://www.postgresql.org/download/
PROJ.4	4.8.0	Frank Warmerdam (c) 2000 (MIT Based License)	Cartographic Projections library	http://trac.osgeo.org/proj/
pupynere	1.0.15	MIT License	Pupynere is a Python module for reading and writing NetCDF files, using the same API as Scientific.IO.NetCDF and pynetcdf	http://pypi.python.org/pypi/pupynere/
PyDev	3.4.1	Eclipse Public License 1.0	Python Development Environment (Python IDE plugin for Eclipse). Features editor, code completion, refactoring, outline view, debugger, and other goodie	http://pydev.org/

pyparsing	2.0.3	MIT License	The pyparsing module is an alternative approach to creating and executing simple grammars, vs. the traditional lex/yacc approach, or the use of regular expressions. The pyparsing module provides a library of classes that client code uses to construct the grammar directly in Python code	http://pyparsing.wikispaces.com/
PyTables	2.1.2	Francesc Alted (c) 2002-2004 & 2008-2010, Carabos Coop. V. (c) 2005-2007	PyTables is a package for managing hierarchical datasets and designed to efficiently and easily cope with extremely large amounts of data	http://www.pytables.org/moin/PyTables http://www.pytables.org/download/stable/
Python	2.7.10	Python Software Foundation License Version 2	Python is a dynamic object-oriented programming language	http://www.python.org/download/releases/
Python Dateutil	2.4.2	Gustavo Niemeyer - Copyright (c) 2003-2011 <gustavo@niemeyer.net	Python is a dynamic object-oriented programming language	https://dateutil.readthedocs.org/en/latest/
Python Megawidgets	1.3.2	Telstra Corporation Limited, Australia (c) 1997-1999, Really Good Software Pty Ltd, Australia (c) 2000-2002	Pmw is a toolkit for building high-level compound widgets in Python using the Tkinter module	http://pmw.sourceforge.net/
Python-Setuptools	18.0.1	Python Software Foundation License Version 2	Download, build, install, upgrade, and uninstall Python packages -- easily!	http://pypi.python.org/pypi/setuptools
Quartz	1.8.0	Apache 2.0	Quartz is a full-featured, open source job scheduling system that can be integrated with, or used along side virtually any J2EE or J2SE application - from the smallest stand-alone application to the largest e-commerce system	http://quartz-scheduler.org/

Quartz	1.8.6	Apache 2.0	Quartz is a full-featured, open source job scheduling system that can be integrated with, or used along side virtually any J2EE or J2SE application - from the smallest stand-alone application to the largest e-commerce system	http://quartz-scheduler.org/
Reflections	0.9.9-RC1	Sam Hocevar (c) 2004 (WTFPL)	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.	http://code.google.com/p/reflections/downloads/list
ScientificPython	2.8	CeCILL-C Free Software License Agreement	Python library for common tasks in scientific computing	http://dirac.cnrs-orleans.fr/plone/software/scientificpython
SciPy	0.15.1	Enthought, Inc (c) 2001-2002, SciPy Developers (c) 2003-2012	Open-source software for mathematics, science, and engineering	http://www.scipy.org , http://sourceforge.net/project/showfiles.php?group_id=27747
Serializer (Xalan Java Serializer)	2.7.1	Apache 2.0	Serializer to write out XML, HTML etc. as a stream of characters from an input DOM or from input SAX	http://mvnrepository.com/artifact/xalan/serializer/2.7.1
shapely	1.4.4	Sean C Gillies (c) 2007 (BSD 3-clause)	Shapely is a BSD-licensed Python package for manipulation and analysis of planar geometric objects	http://pypi.python.org/pypi/Shapely
Six	1.9.0	Benjamin Peterson (c) 2010-2015	Six is a Python 2 and 3 compatibility library. It provides utility functions for smoothing over the differences between the Python versions with the goal of writing Python code that is compatible on both Python versions.	https://pypi.python.org/pypi/six/
slf4j	1.5.0	SLF4J License (c) 2004-2013	The Simple Logging Facade for Java or (SLF4J) serves as a simple facade or abstraction for various logging frameworks	http://www.slf4j.org/download.html

slf4j	1.7.12	qos.ch (c) 2004-2014	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.	http://www.slf4j.org/download.html
Smack	4.1.4	Apache 2.0	Smack is an Open Source XMPP (Jabber) client library for instant messaging and presence	http://www.igniterealtime.org/projects/smack/
SNMP4J	N/A	Apache 2.0	SNMP4J is an enterprise class free open source and state-of-the-art SNMP implementation for Java™ 2SE 1.4 or later	http://www.snmp4j.org/
Spring Framework	4.1.6	Apache 2.0	Platform to build and run enterprise Java applications	http://search.maven.org/
Stax-api (Apache Geronimo)	1.0 spec-1.0.1	Apache 2.0	StAX is a standard XML processing API that allows you to stream XML data from and to your application. This StAX implementation is the standard pull parser implementation for JSR-173 specification.	http://mirrors.ibiblio.org/maven2/org/apache/geronimo/specs/geronimo-stax-api_1.0_spec/1.0.1/
SWT Add-ons	0.1.1	Eclipse Public License 1.0	Add-ons for Eclipse SWT widgets	http://sourceforge.net/projects/swtaddons/ http://sourceforge.net/projects/swtaddons/files/
SZIP	2.1	NASA Open Source Agreement 1.3	Szip compression software, providing lossless compression of scientific data, is provided with HDF software products as of HDF5 Release 1.6.0 and HDF4 Release 2.0. Szip is an implementation of the extended-Rice lossless compression algorithm	http://www.hdfgroup.org/doc_resource/SZIP/
Tagsoup	1.2.1	Apache 2.0	TagSoup, a SAX-compliant parser written in Java that, instead of parsing well-formed or valid XML, parses HTML as it is found in the wild	http://ccil.org/

Thrift	0.9.0	Apache 2.0	Thrift is a lightweight, language-independent software stack with an	
Toy Parser Generator	3.1.2	LGPL 2.1	Toy Parser Generator is a lexical and syntactic parser generator for Python	http://www.cdsoft.fr/tpg/index.html
Vecmath	1.3.1	GPL 2.0 with Classpath Exception	Vecmath provides a powerful way to handle and manipulate coordinates and vectors, being compatible with how the Source engine handles them. It provides useful tuple/matrix operations. It has been a standard/stable API and implementation for many years. It is completely independent of the 3d graphics card implementations.	https://java.net/projects/vecmath; http://ftp.us.xemacs.org/pub/mirrors/maven2/java3d/vecmath/1.3.1/
Velocity	1.7	Apache 2.0	Templating Engine	http://velocity.apache.org/
werkzeug	0.6.2	Werkzeug Team (c) 2010	Werkzeug is a WSGI utility library for Python	http://werkzeug.pocoo.org/
wss4j	1.6.19	Apache 2.0	The Apache WSS4J™ project provides a Java implementation of the primary security standards for Web Services, namely the OASIS Web Services Security (WS-Security) specifications from the OASIS Web Services Security TC.	http://archive.apache.org/dist/ws/wss4j/
XercesImpl	2.6.2	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	http://mirrors.ibiblio.org/maven2/xerces/xercesImpl/2.6.2/
XercesImpl	2.9.1	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	http://mirrors.ibiblio.org/maven2/xerces/xercesImpl/2.9.1/
XercesImpl	N/A	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	

xmlParserAPIs	2.6.2	Apache 2.0	Apache xmlParserAPIs ships two kinds of code - external and Apache - in an effort to organize and provide common packaging for the several externally-defined XML standards code: the DOM, SAX, and JAXP interfaces, and Apache xml modules.	http://xerces.apache.org/xml-commons/
xmlpull	1.1.3.4d_b4_min	public domain	XML Pull Parsing	http://www.jarvana.com/jarvana/browse/xmlpull/xmlpull/
yajsw	11.11	LGPL 2.1		
yajsw	11.11 (rtn modified)	LGPL 2.1	updated wrapperCapture.sh	
yajsw	N/A	LGPL 2.1		