

# Third Party Library Attributions

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- [7.20. Sodium Crypto ISC License](#)

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Product Version: 8.2.0

# 1. Summary

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This document contains a summary of the usage of the off-the-shelf (OTS) software at Calgary Scientific as well as a detailed review of the OTS software that is incorporated into the ResolutionMD

server software, Web client, iOS mobile client, and PureWeb SDK.

ResolutionMD utilizes a number of OTS software components. These components usually provide small blocks of specific functionality to the product and industry standard packages are chosen where possible. The actual way in which each of these products is embedded into the product varies but from an end user perspective, these components are not individually identifiable and the overall product appears as a single entity.

Since the final product appears as a single package, installation of OTS components is automatically handled as part of the installation of ResolutionMD. Although these products have varying specifications and system requirements, they are included in the system as a whole and the system is tested as such. ResolutionMD has stated system requirements and specifications under which the whole product, including the OTS components, has been tested and validated against.

The acquisition of new OTS follows our internal procedures within the Quality Management System. When a new OTS product is included in our system, we track it in our code management system, either as source code or precompiled binaries, in the same manner as our own source code. Defects of any of these libraries are identified by the software engineering team through the build process, unit testing, and Quality Assurance (QA) testing.

## 2. PureWeb® Software Third Party Library Attributions

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ResolutionMD leverages PureWeb® technology. For PureWeb® attributions, please see [http://docs.pureweb.io/attributions/5.0/pureweb\\_attributions.html](http://docs.pureweb.io/attributions/5.0/pureweb_attributions.html)

## 3. PureWeb iOS Client Libraries

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### 3.1. Cocoa Lumberjack Framework

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Project

<https://github.com/CocoaLumberjack/CocoaLumberjack>

License

[BSD License](#)

### 3.2. Sodium Crypto Library

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Project

<https://download.libsodium.org/doc/>

License

[Internet Systems Consortium License](#)

## 4. ResolutionMD Server Libraries

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### 4.1. Apache Commons

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Project

<http://commons.apache.org/>

### Description

Apache Commons is a repository of reusable Java components.

### Usage

The configuration and collections components are used to manage server configuration information.

### License

[Apache License](#)

## 4.2. Apache PDFBox

---

### Project

<https://pdfbox.apache.org/>

### Description

Apache PDFBox is an open source Java PDF library for working with PDF documents.

### Usage

Used to render PDF document pages as images.

### License

[Apache License](#)

## 4.3. Apache HttpComponents

---

### Project

<http://hc.apache.org/index.html>

### Description

Toolset of low level Java components focused on HTTP and associated protocols.

### Usage

These components are used to manage http connections within the client.

### Licence

[Apache License](#)

### License URL

<http://www.apache.org/licenses/LICENSE-2.0>

## 4.4. Apache XML Security For Java (xmlsec)

---

### Project

<https://santuario.apache.org/>

### Description

The Apache Santuario™ project is aimed at providing implementation of the primary security standards for XML.

### Usage

This library is used by OpenSAML libraries

### License

Apache 2.0

### Licence URL

<http://www.apache.org/licenses/LICENSE-2.0.txt>

## 4.5. Auto

### Project

<https://github.com/google/auto>

### Description

A collection of source code generators for Java.

### Usage

Generate boilerplate code at build time.

### License

[Apache License](#)

## 4.6. Boost

### Project

<http://www.boost.org/>

### Description

Boost provides free peer-reviewed portable C++ source libraries.

### Usage

Cross platform system wide locking. Date time libraries are used for date math.

### License

Boost

### License URL

[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)

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## 4.7. Bootstrap

### Project

<http://twitter.github.com/bootstrap/>

### Description

Sleek, intuitive, and powerful front-end framework for faster and easier web development.

### Usage

Html layout framework (with many options).

### License

[MIT](#).

## 4.8. Cairo

### Project

<http://www.cairographics.org/>

### Description

This library provides PDF and image rendering capabilities.

### Usage

This library is primarily used for generating reports as either images or PDFs as required.

### License

[MPL 1.1](#).

## 4.9. CanJS

### Project

<http://canjs.us/>

### Description

CanJS is a MIT-licensed, client-side, JavaScript framework that makes building rich web applications easy.

### Usage

Javascript/HTML client side view templating

### License

[MIT](#).

## 4.10. Cryptacular

### Project

<https://www.cryptacular.org/>

### Description

Cryptacular is a general purpose Java cryptographic library.

### Usage

This library is used by OpenSAML libraries

### License

Apache 2.0

### Licence URL

<http://www.apache.org/licenses/LICENSE-2.0.txt>

## 4.11. Curl

### Project

<http://curl.haxx.se/libcurl/>

### Description

libcurl is a free and easy-to-use client-side URL transfer library, supporting DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMTP, SMTPS, Telnet and TFTP. libcurl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, cookies, user+password authentication (Basic, Digest, NTLM, Negotiate, Kerberos), file transfer resume, http proxy tunneling and more! libcurl is highly portable, it builds and works identically on numerous platforms, including Solaris, NetBSD, FreeBSD, OpenBSD, Darwin, HP-UX, IRIX, AIX, Tru64, Linux, UnixWare, HURD, Windows, Amiga, OS/2, BeOS, Mac OS X, Ultrix, QNX, OpenVMS, RISC OS, Novell NetWare, DOS and more. libcurl is free, thread-safe, IPv6 compatible, feature rich, well supported, fast, thoroughly documented and is already used by many known, big and successful companies and numerous applications.

### Usage

Loading DICOM data from the DICOM Q/R service.

### License

Custom

### License URL

<http://curl.haxx.se/docs/copyright.html>

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## 4.12. dcm4che2

### Project

<http://www.dcm4che.org/>

### Description

dcm4che2 is a high performance, open source implementation of the DICOM standard.

### Usage

dcm4che2 is used to perform DICOM network operations and some data processing.

### License

[MPL 1.1](#)

### License URL

<http://www.dcm4che.org/confluence/display/proj/license>

## 4.13. dcm4che3

### Project

<http://www.dcm4che.org/>

### Description

dcm4che3 is a high performance, open source implementation of the DICOM standard.

### Usage

dcm4che3 is used to parse DICOM metadata from a buffered InputStream such that the entire DICOM file does not need to be stored in memory in order to extract the DICOM pixel data bytes

### License

[MPL 1.1](#)

### License URL

<https://github.com/dcm4che/dcm4che/blob/master/LICENSE.txt>

## 4.14. dcm4che5

### Project

<http://www.dcm4che.org/>

### Description

dcm4che5 is a high performance, open source implementation of the DICOM standard.

### Usage

dcm4che5 is used to parse multipart DICOM and JSON responses for DICOM web connections.

### License

[MPL 1.1](#)

### License URL

<https://github.com/dcm4che/dcm4che/blob/master/LICENSE.txt>



## 4.15. DCMTK

### Project

<http://dicom.offis.de/dcmtdk.php.en>

### Description

This library provides a great deal of DICOM related functionality including network communication information, data file access, file creation and modification, and metadata parsing.

### Usage

This library is used to provide a variety of DICOM access functionality within our application.

### License

Custom, with the dcmtdk module covered by a separate agreement with OFFIS.

```

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 *
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// File: appender.h
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## 4.16. Drools Expert

### Project

<http://www.jboss.org/drools/downloads>

### Description

Drools Expert is a declarative, rule based, coding environment

### Usage

To control access to patient data

### License

ASL 2.0

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```

## 4.17. Eclipse Implementation of JAXB

### Project

<https://projects.eclipse.org/projects/ee4j.jaxb-impl>

### Description

The Java™ Architecture for XML Binding (JAXB) provides an API and tools that automate the mapping between XML documents and Java objects. This project contains implementation of JAXB API.

### Usage

Used for SOAP type data connections.

### License

[Eclipse Distribution License 1.0 \(BSD\)](#)

## 4.18. Eclipse Metro

### Project

<https://projects.eclipse.org/projects/ee4j.metro>

### Description

Eclipse Metro is a high-performance, extensible, easy-to-use web service stack. It is a one-stop shop for all your web service needs, from the simplest hello world web service to reliable, secured, and transacted web service that involves .NET services.

### Usage

Used for SOAP type data connections.

### License

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## 4.19. Eclipse ORB

---

### Project

<https://projects.eclipse.org/projects/ee4j.orb>

### Description

Eclipse ORB is a runtime component that can be used for distributed computing using IIOP communication.

### Usage

Used for SOAP type data connections.

### License

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## 4.20. Eclipse Project for JAX-WS

---

### Project

<https://projects.eclipse.org/projects/ee4j.jaxws>

### Description

The Java API for XML Web Services (JAX-WS) is a Java programming language API for creating web services, particularly SOAP services. JAX-WS is one of the Java XML programming APIs. It is part of the Java EE platform.

### Usage

Used for SOAP type data connections.

### License

[Eclipse Distribution License 1.0 \(BSD\)](#)

## 4.21. FFmpeg

---

### Project

<https://www.ffmpeg.org/>

### Description

A complete, cross-platform solution to record, convert and stream audio and video.

### Usage

Pre-compiled stand-alone binaries are used to convert AVI files to a format that can be played on all supported clients.

### License

[GPL 2.0](#)/[LGPL 2.1](#)

## 4.22. FreeMarker

---

### Project

<http://freemarker.org/>

### Description

FreeMarker is a template engine: a Java library to generate text output based on templates and changing data.

### Usage

Used for rendering custom RIS reports.



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**4.23. Freetype****Project**<http://freetype.sourceforge.net/index2.html>**Description**

A library that generates bitmaps from true type fonts.

**Usage**

One of two libraries that is used to generate text that is displayed in the views.

**License**

FreeType

**License URL**<http://freetype.sourceforge.net/FTL.TXT>

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-----

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Our home page can be found at

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--- end of FTL.TXT ---

### 4.24. FTGL

#### Project

<http://sourceforge.net/projects/ftgl/>

#### Description

This library provides freetype based font rendering in openGL.

#### Usage

This library is the second component for rendering text data into the views.

#### License

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#### Note

This contradicts what is on the website <http://sourceforge.net/projects/ftgl/develop> claiming that it's LGPL. However, the COPYING file with the source is MIT.

### 4.25. Glew

#### Project

<http://glew.sourceforge.net/>

#### Description

Glew provides an easy way to map openGL extension function pointers.

#### Usage

Used to map the openGL function pointers before accessing them in our code.

#### License

Licensed under modified [BSD](#), Mesa 3D, Khronos.

## License URL

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Mesa 3-D graphics library

Version: 7.0

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## 4.26. Google Noto Fonts

### Project

<https://www.google.com/get/noto/>

### Description

Google has been developing a font family called Noto, which aims to support all languages with a harmonious look and feel. Noto is Google's answer to tofu. The name noto is to convey the idea that Google's goal is to see "no more tofu". Noto has multiple styles and weights, and is freely available to all. The comprehensive set of fonts and tools used in our development is available in our GitHub repositories.

### Usage

The font used to render text on the imageviewer

### License

SIL Open Font License, Version 1.1

### License URL

[https://scripts.sil.org/cms/scripts/page.php?site\\_id=nrsi&id=OFL](https://scripts.sil.org/cms/scripts/page.php?site_id=nrsi&id=OFL)

### Note

We are not using Google Noto Fonts directly but a merged version of it from the project, <https://github.com/klokantech/klokantech-gl-fonts>

## 4.27. Google APIs Client Library for JAVA

---

### Project

<https://github.com/googleapis/google-api-java-client>

### Description

The Google APIs Client Library for Java is a flexible, efficient, and powerful Java client library for accessing any HTTP-based API on the web, not just Google APIs.

### Usage

Dependency for google-api-client-services

### License

Apache License, 2.0

### License URL

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## 4.28. Google JAVA API Client Services

---

### Project

<https://github.com/googleapis/google-api-java-client-services>

### Description

This repository contains the generated source for individual APIs that utilize Google APIs Client Library for Java.

### Usage

Used to authenticate DICOMweb requests to Google Healthcare API with Google OAuth2

### License

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## 4.29. google-code-prettify

---

### Project

<https://code.google.com/p/google-code-prettify/>

### Description

A Javascript module and CSS file that allows syntax highlighting of source code snippets in an html page.

### Usage

Code prettification.

### License

Apache License, 2.0

### License URL

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## 4.30. Google HTTP Client Library for JAVA

---

### Project

<https://github.com/googleapis/google-http-java-client>

### Description

Written by Google, the Google HTTP Client Library for Java is a flexible, efficient, and powerful Java library for accessing any resource on the web via HTTP.

### Usage

Dependency for google-api-client-services

### License

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## 4.31. Google OAuth Client Library for JAVA

---

### Project

<https://github.com/googleapis/google-oauth-java-client>

### Description

Written by Google, the Google OAuth Client Library for Java is a powerful and easy-to-use Java library for the OAuth 1.0a and OAuth 2.0 authorization standards. The Google OAuth Client Library for Java is designed to work with any OAuth service on the web, not just with Google APIs. It is built on the Google HTTP Client Library for Java.

### Usage

Dependency for google-api-client-services

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## 4.32. gRPC Java

---

### Project

<https://github.com/grpc/grpc-java>

### Description

The Java gRPC implementation. HTTP/2 based RPC <https://grpc.io>

### Usage

Dependency for google-api-client-services

### License

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## 4.33. Guava

---

### Project

<https://github.com/google/guava>

### Description

Guava is a set of core Java libraries from Google that includes new collection types (such as multimap and multiset), immutable collections, a graph library, and utilities for concurrency,



I/O, hashing, caching, primitives, strings, and more! It is widely used on most Java projects within Google, and widely used by many other companies as well.

#### Usage

Dependency for google-api-client-services

#### License

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### 4.34. html5shiv

---

#### Project

<https://github.com/aFarkas/html5shiv>

#### Description

The HTML5 Shiv enables use of HTML5 sectioning elements in legacy Internet Explorer and provides basic HTML5 styling for Internet Explorer 6-9, Safari 4.x (and iPhone 3.x), and Firefox 3.x.

#### Usage

IE compatibility.

#### License

[MIT](#).

### 4.35. HAPI

---

#### Project

<https://hapifhir.github.io/hapi-hl7v2/>

#### Description

Open-source, object-oriented HL7 2.x parser for Java from University Health Network

#### Usage

HL7 message parsing for XDS documents.

#### License

[\[MPL 1.1\]](#)

#### License URL

<https://hapifhir.github.io/hapi-hl7v2/license.html>

### 4.36. ICU

---

#### Project

<http://site.icu-project.org/>

#### Description

ICU provides handling and conversion routines for manipulation of unicode character sets and encodings.

#### Usage

Used to convert between various encodings, assist with localization specific formatting, and comparison of unicode strings.

#### License

Custom

**License URL**

<http://source.icu-project.org/repos/icu/icu/trunk/license.html>

ICU License - ICU 1.8.1 and later

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**4.37. ITK****Project**

<http://www.itk.org/>

**Description**

ITK provides a variety of imaging and data access methods geared towards medical processing.

**Usage**

Not used directly but used as part of whole heart segmentation and other algorithms.

**License**

[BSD](#)

## 4.38. Java implementation of JSON Web Token (JWT)

**Project**

<https://github.com/auth0/java-jwt>

**Description**

A Java implementation of JSON Web Token (JWT) - RFC 7519.

**Usage**

Used for AVA NextGen VAMF JSON web token implementation.

**License**

[MIT](#)

**License URL**

<https://github.com/auth0/java-jwt/blob/master/LICENSE>

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## 4.39. Jakarta JSON Processing

**Project**

<https://eclipse-ee4j.github.io/jsonp/>

## Description

A library providing APIs to parse JSON documents.

## Usage

A dependency of dcm4che-json, this library is used to parse JSON representations of DICOM data

## License

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## License URL

<https://github.com/eclipse-ee4j/jsonp/blob/master/LICENSE.md>

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based on this library. If you modify this library, you may extend this

exception to your version of the library, but you are not obligated to

do so. If you do not wish to do so, delete this exception statement from your version.

## 4.40. Java-Support

### Project

<https://shibboleth.net/sites/release/java-support/8.2.0/project-info.html>

### Description

Utility library

### Usage

This lib is used by OpenSAML libraries

### License

The Apache Software License, Version 2.0

### Licence URL

<http://www.apache.org/licenses/LICENSE-2.0.txt>

## 4.41. Jersey

### Project

<https://jersey.java.net/>

### Description

Jersey RESTful Web Services framework is open source, production quality, framework for developing RESTful Web Services in Java that provides support for JAX-RS APIs and serves as a JAX-RS (JSR 311 & JSR 339) Reference Implementation.

### Usage

Restful API's for the SecureURL service, specifically chosen to provide a WADL file for integrators.

### License

[CDDL v1.1](#)

## 4.42. Joda-Time

### Project

<http://www.joda.org/joda-time/>

### Description

Joda-Time provides a quality replacement for the Java date and time classes. Joda-Time is the de facto standard date and time library for Java.

### Usage

Used to parse DICOM dates and times for custom reporting.

### License

[Apache License](#)

### License URL

<http://www.joda.org/joda-time/license.html>

## 4.43. jQuery

### Project

<http://jquery.com/>

### Description

Sleek, intuitive, and powerful front-end framework for faster and easier web development.

#### Usage

Html layout framework (with many options).

#### License

[MIT](#).

### **4.44. jQuery UI**

---

#### Project

<http://jqueryui.com/>

#### Description

jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. Whether you're building highly interactive web applications or you just need to add a date picker to a form control, jQuery UI is the perfect choice.

#### Usage

Configuration UI.

#### License

[MIT](#).

### **4.45. JSON Smart V1**

---

#### Project

<https://github.com/netplex/json-smart-v1>

#### Description

Json-smart is a performance focused, JSON processor lib

#### Usage

This component is used by Spring and Spring Security Framework

#### License

Apache License, 2.0

#### License URL

<http://www.apache.org/licenses/LICENSE-2.0>

### **4.46. JSON Web Token support for the JVM**

---

#### Project

<https://github.com/jwt/jjwt>

#### Description

JJWT aims to be the easiest to use and understand library for creating and verifying JSON Web Tokens (JWTs) on the JVM and Android.

#### Usage

Used for AVA NextGen VAMF JSON web token implementation.

#### License

[Apache License](#)

### **4.47. jsoup Java HTML Parser**

---

#### Project

<https://jsoup.org/>

### Description

jsoup is a Java library for working with real-world HTML. It provides a very convenient API for extracting and manipulating data, using the best of DOM, CSS, and jquery-like methods.

### Usage

McKesson HTML report processing

### License

[MIT](#)

### License URL

<https://jsoup.org/license>

The jsoup code-base (include source and compiled packages) are distributed under the open source MIT license as described below. The MIT License

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## 4.48. Lo-Dash

### Project

<https://github.com/bestiejs/lodash>

### Description

An alternative to Underscore.js, delivering consistency, customization, performance, and extra features.

### Usage

## Javascript utility library

### License

[MIT](#).

## 4.49. libpng

### Project

<http://www.libpng.org/pub/png/libpng.html>

### Description

A library for encoding and decoding PNG images.

### Usage

This library is primarily used to create PNG images during debugging.

### License

PNG

### License URL

<http://www.libpng.org/pub/png/src/libpng-LICENSE.txt>

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A "png\_get\_copyright" function is available, for convenient use in "about" boxes and the like:

```
printf("%s",png_get_copyright(NULL));
```

Also, the PNG logo (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
September 23, 2010

## 4.50. llvm

### Project

<http://llvm.org/>

### Description

A library used to provide compiler infrastructure.

### Usage

Used by Mesa 3D Graphics Library's llvmpipe to provide efficient OpenGL rendering on a linux machine.

### License

Custom

### License URL

<http://llvm.org/releases/3.2/LICENSE.TXT>

```
=====
LLVM Release License
=====
```

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```

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```

```
Developed by:
```

```
LLVM Team
```



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<http://llvm.org>

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## 4.51. logback

### Project

<http://logback.qos.ch/index.html>

### Description

logback is a Java-based logging framework

### Usage

Used for logging.

### License

EPL

### License URL

<https://www.eclipse.org/legal/epl-v10.html>

## 4.52. Mesa 3D Graphics Library

### Project

<http://www.mesa3d.org/>

### Description

Mesa is an open-source implementation of the OpenGL specification - a system for rendering interactive 3D graphics.

### Usage

Used to provide OpenGL rendering when installed on a linux machine (generally a virtual machine) that does not have access to a graphics card.

### License

Custom MIT Variant

### License URL

<http://www.mesa3d.org/license.html>

### Disclaimer

Mesa is a 3-D graphics library with an API which is very similar to that of

OpenGL.\* To the extent that Mesa utilizes the OpenGL command syntax or state machine, it is being used with authorization from Silicon Graphics, Inc. (SGI). However, the author does not possess an OpenGL license from SGI, and makes no claim that Mesa is in any way a compatible replacement for OpenGL or associated with SGI. Those who want a licensed implementation of OpenGL should contact a licensed vendor.

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Mesa Component Licenses

Component	Location	License
Main Mesa code	src/mesa/	Mesa (MIT)
Device drivers	src/mesa/drivers/*	MIT, generally
Ext headers	include/GL/glxt.h include/GL/glxext.h	Khronos

In general, consult the source files for license terms.

## 4.53. Metrics core

Project

<https://metrics.dropwizard.io/4.2.0/about/index.html>

Description

Metrics provides a powerful toolkit of ways to measure the behavior of critical components in your production environment

Usage

This library is used by OpenSAML libraries

License

Apache 2.0

Licence URL

<http://www.apache.org/licenses/LICENSE-2.0.txt>

## 4.54. minizip

Project

<http://www.winimage.com/zLibDll/minizip.html>

Description

A library for creating and reading files compressed using the zip format.

Usage

Used for reading compressed DICOM files.

License

[zlib](#)

## 4.55. Nimbus JOSE+JWT

**Project**

<https://connect2id.com/products/nimbus-jose-jwt>

**Description**

This is a Java and Android library for JSON Web Tokens (JWT)

**Usage**

This component is used by Spring and Spring Security Framework

**License**

Apache License, 2.0

**License URL**

<http://www.apache.org/licenses/LICENSE-2.0>

**4.56. PixelMed****Project**

<http://www.pixelmed.com>

**Description**

This is a stand-alone DICOM toolkit that implements code for reading and creating DICOM data, DICOM network and file support, a database of DICOM objects, support for display of directories, images, reports and spectra, and DICOM object validation.

**Usage**

Used to convert thumbnails from YBR to RGB in java

**License**

[BSD](#)

**License URL**

<http://www.dclunie.com/pixelmed/software/COPYRIGHT>

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#### **4.57. opencensus-java**

##### Project

<https://github.com/census-instrumentation/opencensus-java>

##### Description

A stats collection and distributed tracing framework <https://opencensus.io>

##### Usage

Dependency for google-api-client-services

##### License

Apache License, 2.0

##### License URL

<http://www.apache.org/licenses/LICENSE-2.0>

#### **4.58. requirejs**

##### Project

<http://requirejs.org/>

##### Description

RequireJS is a JavaScript file and module loader. It is optimized for in-browser use, but it can be used in other JavaScript environments, like Rhino and Node. Using a modular script loader like RequireJS will improve the speed and quality of your code.

##### Usage

JavaScript module loading.

##### License

MIT or "New" BSD

##### License URL

<https://github.com/jrburke/requirejs/blob/master/LICENSE>

#### **4.59. OpenSAML**

##### Project

<https://shibboleth.atlassian.net/wiki/spaces/OpenSAML/overview> Description OpenSAML is a set of open source C++ & Java libraries meant to support developers working with the Security Assertion Markup Language (SAML).

#### Usage

This component is used by Spring Security Framework

#### License

The Apache Software License, Version 2.0

#### Licence URL

<http://www.apache.org/licenses/LICENSE-2.0.txt>

### **4.60. SLF4J**

#### Project

<http://www.slf4j.org/>

#### Description

The Simple Logging Facade for Java or (SLF4J) serves as a simple facade or abstraction for various logging frameworks, e.g. java.util.logging, log4j and logback, allowing the end user to plug in the desired logging framework at deployment time.

#### Usage

This component is used for logging diagnostic messages.

#### Licence

<<mit,MIT>

### **4.61. wysihtml5**

#### Project

<https://github.com/xing/wysihtml5>

#### Description

Open source rich text editor based on HTML5 and the progressive-enhancement approach.

#### Usage

Html text editor

#### License

[MIT](#).

### **4.62. zlib**

#### Project

<http://www.zlib.net/>

#### Description

This library provides data compression and decompression utilities.

#### Usage

Used for general data compression.

#### License

[zlib](#)

## 5. ResolutionMD iOS Client Libraries

---

### 5.1. Alamofire

Project

<https://github.com/Alamofire/Alamofire>

Description

Alamofire is an HTTP networking library written in Swift.

Usage

This is used to perform network operations between the server and client app.

License

[MIT](#)

### 5.2. AlamofireNetworkActivityIndicator

Project

<https://github.com/Alamofire/AlamofireNetworkActivityIndicator>

Description

AlamofireNetworkActivityIndicator controls the visibility of the network activity indicator on iOS using Alamofire.

Usage

AlamofireNetworkActivityIndicator is used to indicate network activity to an iOS user.

License

[MIT](#)

### 5.3. SWXMLHash

Project

<https://github.com/drmohundro/SWXMLHash>

Description

SWXMLHash is a relatively simple way to parse XML in Swift. If you're familiar with NSXMLParser, this library is a simple wrapper around it. Conceptually, it provides a translation from XML to a dictionary of arrays (aka hash).

Usage

This library is used for parsing xml responses received from the server.

License

[MIT](#)

### 5.4. OCMock

Project

<http://ocmock.org>

Description

OCMock is an Objective-C implementation of mock objects.

Usage



Used for testing.

License

[Apache 2.0](#)

## 5.5. OpenTok

Project

<https://tokbox.com/opentok/libraries/client/ios/>

Description

The OpenTok iOS SDK lets you use OpenTok-powered video sessions in apps you build for iPad, iPhone, and iPod touch devices.

Usage

This library is used to provide audio-video collaboration functionality in the iOS application.

License

Enterprise License with TokBox Inc.

## 5.6. 360 | SpeechAnywhere

Project

<https://www.nuancehealthcaredeveloper.com>

Description

Secure, cloud-based, clinical speech recognition with client-side software components for mobile device platforms, web browsers, and desktops.

Usage

This library is used to provide clinical report dictation functionality within the iOS application.

License

Enterprise License with Nuance Communications Inc.

# 6. ResolutionMD HTML Client Libraries

---

## 6.1. AngularJS

Project

<https://angularjs.org/>

Description

HTML enhanced for web apps!

Usage

Base application framework, DOM and CSS animation management, local storage access, in-app routing, and various utilities.

License

[MIT](#)

License URL

<https://github.com/angular/angular.js/blob/master/LICENSE>

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## 6.2. angular-gettext

### Project

<https://angular-gettext.rocketeer.be/>

### Description

Super-simple translation support for Angular.JS.

### Usage

Internationalization.

### License

[MIT](#)

(The MIT License)

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### 6.3. angular-native-dragdrop

#### Project

<https://github.com/angular-dragdrop/angular-dragdrop>

#### Description

Angular-DragDrop is a angular HTML5 Drag and Drop directive written in pure with no dependency on JQuery.

#### Usage

Managing cross-browser drag and drop functionality.

#### License

[MIT](#)

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## 6.4. Forge

### Project

<https://github.com/digitalbazaar/forge>

### Description

A native implementation of TLS (and various other cryptographic tools) in JavaScript.

### Usage

Generate SHA-512 hashes.

### License

[BSD](#)

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## 6.5. jQuery

### Project

<https://jquery.com/>

### Description

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

### Usage

Document object model manipulation, element search.

### License

[MIT](#)

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## 6.6. lodash

### Project

<https://lodash.com/>

### Description

A JavaScript utility library delivering consistency, modularity, performance, & extras.

### Usage

Functional programming utilities.

### License

[MIT](#)

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## 6.7. Moment.js

### Project

<http://momentjs.com/>

### Description

Parse, validate, manipulate, and display dates in JavaScript.

### Usage

Date and time manipulation, validation, and formatting.

### License

[MIT](#)

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## 6.8. Pikaday

### Project

<https://github.com/dbushell/Pikaday>

### Description

A refreshing JavaScript Datepicker.

### Usage

Date selection user interface.

### License

[MIT](#)

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## 6.9. React

### Project

<https://reactjs.org/>

### Description

JavaScript library for building user interfaces.

### Usage

Building encapsulated user interface components.

### License

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<https://github.com/facebook/react/blob/master/LICENSE>

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## **6.10. RxJS-DOM**

**Project**

<http://reactivex.io/>

**Description**

HTML DOM Bindings for the Reactive Extensions for JavaScript.

**Usage**

Document object model event handling and manipulation.

**License**

[Apache License](#)

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## 6.11. RxJS

### Project

<http://reactivex.io/>

### Description

An API for asynchronous programming with observable streams.

### Usage

Asynchronous data management and processing.

### License

[Apache License](#)

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## 6.12. OpenTok

### Project

<https://tokbox.com/developer/sdks/js/>

### Description

The OpenTok.js library lets you use OpenTok-powered video sessions on the web.

### Usage

This library is used to provide audio-video collaboration functionality in the HTML client.

#### License

Enterprise License with TokBox Inc.

### **6.13. swfobject**

#### Project

<https://code.google.com/p/swfobject/>

#### Description

SWFObject is an easy-to-use and standards-friendly method to embed Flash content, which utilizes one small JavaScript file.

#### Usage

Inclusion of Adobe Flash documents.

#### License

[MIT](#)

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If distribution of object code is made by offering access to copy from a designated place, then offering

equivalent access to copy the source code from the same place satisfies the requirement to distribute

the source code, even though third parties are not compelled to copy the source along with the object

code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with

the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work,

in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this

License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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