Third Party Library Attributions

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1. Summary

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, Android and iOS mobile clients, 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. ResolutionMD Server Libraries

2.1. Apache Commons

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

2.2. 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

2.3. Arial Unicode Font

Project
: http://catalog.monotype.com/family/monotype/arial-unicode

Description
: Arial Unicode font

Usage
: Server side metadata rendering

License
: Enterprise License with Monotype Imaging Inc.

2.4. 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

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2.5. 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.

2.6. 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.

2.7. 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.

2.8. 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, HPUX, 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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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

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2.10. 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

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> MPL 1.1

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

2.11. DCMTK

Project
> http://dicom.offis.de/dcmtk.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 dcmjp2k module covered by a separate agreement with OFFIS.

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2.12. 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

License URL

http://www.apache.org/licenses/LICENSE-2.0.html

```
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 *
 */
```

2.13. 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

2.14. 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.

License

Apache License

License URL

http://freemarker.org/docs/app_license.html

```
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2.15. 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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                    ----------------------------

                           2006-Jan-27

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            David Turner, Robert Wilhelm, and Werner Lemberg



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============

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         o  freetype@nongnu.org

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            If  you are looking  for support,  start in  this list  if you
            haven't found anything to help you in the documentation.

         o  freetype-devel@nongnu.org

            Discusses bugs,  as well  as engine internals,  design issues,
            specific licenses, porting, etc.

       Our home page can be found at

         http://www.freetype.org


 --- end of FTL.TXT ---
```

2.16. 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
  MIT

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.

2.17. 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
 https://github.com/nigels-com/glew#copyright-and-licensing

```
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```
Mesa 3-D graphics library
Version:  7.0

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2.18. 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
>http://www.apache.org/licenses/LICENSE-2.0

2.19. 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.

2.20. 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 doucments.

License
>[MPL 1.1]

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

2.21. 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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2.22. 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

2.23. 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

2.24. 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

2.25. 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.

2.26. jQuery File Upload Plugin

Project

https://github.com/blueimp/jQuery-File-Upload

Description

jQuery is a fast, small, and feature-rich JavaScript library.

Usage

Javascript/html code simplification through framework.

License

MIT.

2.27. jQuery Hashchange

Project

http://benalman.com/projects/jquery-hashchange-plugin/

Description

This jQuery plugin enables very basic bookmarkable #hash history via a cross-browser window.onhashchange event.

Usage

IE 6 and 7 compatibility.

License

MIT.

2.28. 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.

2.29. 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
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2.30. Lo-Dash

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

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

Usage
> Javascript utiltity library

License
> MIT.

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

2.32. llvm

Project
>   http://llvm.org/

Description
>   A library used to provide compiler infrastructure.

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

License
>   Custom

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

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    University of Illinois at Urbana-Champaign

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```

2.33. 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
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with SGI. Those who want a licensed implementation of OpenGL should contact a
licensed vendor.

Please do not refer to the library as MesaGL (for legal reasons). It's just Mesa
or The Mesa 3-D graphics library.

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This allows integration with the XFree86, Xorg and DRI projects.

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primary components of the Mesa distribution and their respective licenses.

Mesa Component Licenses

 Component         Location              License
 ----------------------------------------------------------------
 Main Mesa code    src/mesa/             Mesa (MIT)

 Device drivers    src/mesa/drivers/*    MIT, generally

 Ext headers       include/GL/glext.h    Khronos
                   include/GL/glxext.h

 In general, consult the source files for license terms.
```

2.34. 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

2.35. 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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2.36. 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

2.37. 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.

2.38. zlib

Project

http://www.zlib.net/

Description

This library provides data compression and decompression utilities.

Usage

Used for general data compression.

License

zlib

3. ResolutionMD iOS Client Libraries

3.1. 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

3.2. 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 actvity to an iOS user.

License
MIT

3.3. 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

3.4. OCMock

Project
http://ocmock.org

Description
OCMock is an Objective-C implementation of mock objects.

Usage
Used for testing.

License
Apache 2.0

3.5. 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.

3.6. 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.

4. ResolutionMD Android Client Libraries

4.1. android-undergarment

Project
https://github.com/eddieringle/android-undergarment

Description
A slide-out navigation (a.k.a. "Drawer") implementation for Android applications.

Usage
This library is used to provide the drawer functionality.

License
Custom

```
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4.2. OrmLite

Project

http://ormlite.com/

Description

Object Relational Mapping Lite (ORM Lite) provides some simple, lightweight functionality for persisting Java objects to SQL databases while avoiding the complexity and overhead of more standard ORM packages.

Usage

This library is used to persist user preferences.

License

Custom

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```

4.3. XPP3

Project

http://www.extreme.indiana.edu/xgws/xsoap/xpp/

Description

Xml Pull Parser (in short XPP) is a streaming pull XML parser.

Usage

Used to parse XML documents.

License

Custom

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4.4. XStream

Project
> http://xstream.codehaus.org/

Description
> XStream is a simple library to serialize objects to XML and back again.

Usage
> This library is used to parse and serialize data as XML.

License
> BSD

4.5. ActionBarSherlock

Project
> http://actionbarsherlock.com/

Description
> ActionBarSherlock is an extension of Google's compatibility library designed to facilitate the use of the action bar design pattern across all versions of Android with a single API.

Usage
> This library is used to provide uniform UI functionality across all supported Android versions (2.x-4.x).

License
> Apache 2.0

4.6. Commons IO

Project
> http://commons.apache.org/io/

Description
> Commons IO is a library of utilities to assist with developing IO functionality.

Usage
> This library is used to manage I/O streams.

License
> Apache 2.0

4.7. TouchListView

Project
> https://github.com/commonsguy/cwac-touchlist

Description
> TouchListView is a custom list view UI component that allows a user to reorder list elements by dragging. This code is derived from the TouchInterceptor class that is part of the Android music app.

Usage
> This library is used in the UI.

License
> Apache 2.0

4.8. AndroidHttpClient

Project
> http://code.google.com/p/zxing/

Description
> Subclass of the standard Apache DefaultHttpClient class that is configured with reasonable default settings and registered schemes for Android.

Usage
> This library is used for making HTTP requests.

License
> Apache 2.0

5. ResolutionMD HTML Client Libraries

5.1. 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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5.2. 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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5.3. 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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5.4. 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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5.5. 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
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5.6. 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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5.7. 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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5.8. Pikaday

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

Description
> A refreshing JavaScript Datepicker.

Usage
> Date selection user interface.

License
> MIT

```
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5.9. React

Project
> https://reactjs.org/

Description
> JavaScript library for building user interfaces.

Usage
> Building encapsulated user interface components.

License
> MIT

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

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```

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5.10. RxJS-DOM

Project
> http://reactivex.io/

Description
> HTML DOM Bindings for the Reactive Extensions for JavaScript.

Usage
> Document object model event handling and manipulation.

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> Apache License

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5.11. RxJS

Project
> http://reactivex.io/

Description
> An API for asynchronous programming with observable streams.

Usage
> Asynchronous data management and processing.

License
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```

5.12. 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.

5.13. 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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```

5.14. ZeroClipboard

Project
    http://zeroclipboard.org/

Description
    The ZeroClipboard library provides an easy way to copy text to the clipboard using an invisible Adobe Flash movie and a JavaScript interface.

Usage
    Cross-browser clipboard access.

License
    MIT

```
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6. PureWeb iOS Client Libraries

6.1. Cocoa Lumberjack Framework

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

Description
>A fast & simple, yet powerful & flexible logging framework for Mac and iOS

Usage
>Client logging

License
>BSD License

License URL
>https://github.com/CocoaLumberjack/CocoaLumberjack/blob/master/LICENSE.txt

6.2. Google Toolbox for Mac

Project
>http://code.google.com/p/google-toolbox-for-mac/

Description
>A collection of source from different Google projects that may be of use to developers working other Mac projects. Also includes the Google Developer Spotlight Importers.

Usage
>The PureWeb iOS SDK uses some helper methods in this library to parse XML.

License
>Apache License

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

7. PureWeb Android Client Libraries

7.1. Android SDK

Project
>http://developer.android.com/sdk/index.html

Description
>The Android SDK provides you the API libraries and developer tools necessary to build, test, and debug apps for Android.

Usage
>Used to build native Android PureWeb clients.

License
>Apache 2.0

License URL
>http://source.android.com/source/licenses.html

7.2. JDOM

Project
>http://www.jdom.org/

Description
>A library for accessing, manipulating, and outputting XML data from Java code.

Usage
>Used for accessing XML formatted data.

License
>Custom

```
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more information on the JDOM Project, please see <http://www.jdom.org/>.
```

7.3. 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 library is used for logging on the android client.

License
> MIT

7.4. SLF4J Android

Project
> http://www.slf4j.org/android/

Description
> The motivation for the SLF4J Android project was to ease using existing libraries which use SLF4J as their logging framework on the Google Android platform.

Usage
> Logging for Android clients.

License
> MIT License

License URL
> http://www.slf4j.org/license.html

8. PureWeb Libraries (Other)

8.1. h264bsd

Project
> https://github.com/oneam/h264bsd/

Description
> h264bsd is a software-based library to provide a simple H.264 decoder that can be easily invoked from ffi systems.

Usage
> This project is used to decode h264 data License: Apache 2.0

License URL
> http://source.android.com/source/licenses.html

8.2. x264

Project
> http://x264licensing.com/

Description

x264 is an library for encoding H264 data, it must be obtained and licensed separately from PureWeb

Usage

PureWeb can use x264 to provide H264 encoding

License

GPL v2.0

8.3. Tomcat

Project

http://tomcat.apache.org/

Description

Apache Tomcat is an open source software implementation of the Java Servlet and JavaServer Pages technologies.

Usage

The PureWeb server uses Tomcat as a servelet container.

License

Apache 2.0

8.4. Jaxb

Project

https://jaxb.dev.java.net/

Description

Java Architecture for XML Binding (JAXB) allows Java developers to map Java classes to XML representations.

Usage

Used for wsdl binding.

License

CDDL v1.1

License URL

https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html

8.5. JAX-WS

Project

http://jax-ws.java.net/

Description

The Java API for XML Web Services (JAX-WS) is a Java programming language API for creating web services.

Usage

Not currently used.

License

CDDL v1.1

License URL

https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html

8.6. Junit

Project

http://junit.sourceforge.net/

Description

JUnit is a unit testing framework for the Java programming language.

Usage

Used to develop automated tests of java components.

License

CPL v1.0

8.7. Mockito

Project

http://code.google.com/p/mockito/

Description

Mockito is an open source testing framework for Java.

Usage

Not currently used.

License
MIT

8.8. Nekohtml

Project
http://nekohtml.sourceforge.net/

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.

Usage
Not currently used.

License
Apache 2.0

8.9. Stax-ex

Project
http://stax-ex.java.net/

Description
Streaming API for XML (StAX) is an application programming interface (API) to read and write XML documents.

Usage
Not currently used.

License
CDDL v1.1

License URL
https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html

8.10. xerces

Project
http://xerces.apache.org/xerces2-j/

Description
Xerces is a collection of software libraries for parsing, validating, serializing and manipulating XML.

Usage
Not currently used.

License
Apache 2.0

8.11. Apache Commons

Project
http://commons.apache.org/

Description
Apache Commons is a repository of reusable Java components.

Usage
The Codec component is used for Base64 encoding.

License
Apache 2.0

8.12. log4j

Project
http://logging.apache.org/log4j/1.2/index.html

Description
Apache log4j is a Java-based logging utility.

Usage
Used for logging.

License
Apache 2.0

8.13. 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.

Usage
Used for logging.

License
MIT

8.14. Flexunit

Project
http://flexunit.org/

Description
FlexUnit is a unit testing framework for Flex and ActionScript 3.0 applications and libraries.

Usage
Used for Flex client unit tests.

License
MIT

License URL
http://docs.flexunit.org/index.php?title=License

8.15. Spring Framework

Project
http://www.springsource.org

Description
The Spring Framework is an open source application framework for the Java platform.

Usage
The Spring Framework is primarily used as an Inversion of Control container in the middle tier.

License
Apache 2.0

8.16. H2

Project
http://www.h2database.com/html/main.html

Description
H2 is a Java SQL database.

Usage
Used for database creation from local DICOM files.

License
Modified MPL 1.1

License URL
http://www.h2database.com/html/license.html

8.17. Ibatis

Project
http://ibatis.apache.org/

Description
iBATIS is a persistence framework which automates the mapping between SQL databases and objects in Java, .NET, and Ruby on Rails. In Java, the objects are POJOs (Plain Old Java Objects).

Usage
Used for database creation from local DICOM files.

License
Apache 2.0

8.18. Jackson

Project
http://jackson.codehaus.org/

Description

Jackson is a Java JSON-processor

Usage

Jackson is used to convert to and from JSON format.

License

Apache 2.0

8.19. Jai-imageio

Project

https://jai-imageio.dev.java.net/

Description

Java Advanced Imaging Image I/O Tools project

Usage

Used for DICOM thumbnail generation.

License

BSD

8.20. Jaxen

Project

http://jaxen.codehaus.org/

Description

Jaxen is an open source XPath library written in Java.

Usage

Used for upgrader xml parsing.

License

Apache style license

License URL

http://jaxen.codehaus.org/license.html

```
$Id: LICENSE.txt 1128 2006-02-05 21:49:04Z elharo $

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```

8.21. Jdom

Project

http://www.jdom.org/

Description

JDOM is a way to represent an XML document for easy and efficient reading, manipulation, and writing.

Usage

Used for XML document parsing.

License

Apache with acknowledgement clause removed

License URL

http://www.jdom.org/docs/faq.html#a0030

```
$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp $

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more information on the JDOM Project, please see <http://www.jdom.org/>.
```

8.22. Jstl

Project
>https://jstl.dev.java.net/

Description
>This project provides an implementation of the Standard Tag Library for JavaServer Pages (JSTL)

Usage
>Used for legacy configuration pages.

License
>CDDL 1.0

License URL
>https://glassfish.dev.java.net/public/CDDL+GPL.html

8.23. Spring-ldap

Project
>http://www.springsource.org/ldap

Description
>Spring LDAP is a Java library for simplifying LDAP operations

Usage
>Spring LDAP is used to integrate with LDAP systems for authentication.

License
>Apache 2.0

8.24. Spring-security

Project
>http://static.springsource.org/spring-security/site/

Description
>Spring Security is a powerful and highly customizable authentication and access-control framework.

Usage
>Spring Security is used to integrate with security systems.

License
    Apache 2.0

8.25. Taglibs

Project
    http://tomcat.apache.org/taglibs/

Description
    This project is an open source repository for JSP(tm) Tag Libraries.

Usage
    Used for legacy configuration pages.

License
    Apache 2.0

8.26. XPP3

Project
    http://www.extreme.indiana.edu/xgws/xsoap/xpp/mxp1/

Description
    XPP3 is an XML parsing engine.

Usage
    Used to parse XML.

License
    Indiana University Extreme! Lab Software License

License URL
    http://www.extreme.indiana.edu/viewcvs/checkout/XPP3/java/LICENSE.txt

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8.27. Xstream

Project
    http://xstream.codehaus.org/

Description

XStream is a simple library to serialize objects to XML and back again.

Usage

Used to serialize objects to XML and back.

License

BSD License

License URL

http://xstream.codehaus.org/license.html

8.28. Jtds

Project

http://jtds.sourceforge.net/

Description

jTDS is an open source Java JDBC 3.0 driver for Microsoft SQL Server and Sybase.

Usage

Used to access database servers.

License

LGPL

License URL

http://jtds.sourceforge.net/license.html

8.29. Oracle JDBC

Project

http://www.oracle.com/technetwork/database/features/jdbc/index-091264.html

Description

JDBC driver for Oracle databases.

Usage

Used to access database servers.

License

Oracle Technology Network Development and Distribution License

License URL

http://www.oracle.com/technetwork/licenses/distribution-license-152002.html

8.30. ICU

Project

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

Description

ICU is a mature, widely used set of C/C++ and Java libraries providing Unicode and Globalization support for software applications.

Usage

Used for cross-platform Unicode support in the CSI Standard Libraries.

License

ICU License

License URL

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

8.31. Intel Performance Primitives

Project

http://software.intel.com/en-us/articles/intel-ipp/

Description

Intel® Integrated Performance Primitives (Intel® IPP) is an extensive library of multicore-ready, highly optimized software functions for multimedia, data processing, and communications applications.

Usage

Used for image manipulation and compression.

License

Intel® Integrated Performance Primitives End User License Agreement

License URL

http://software.intel.com/en-us/articles/intel-software-development-products-license-agreement/

8.32. libjpeg

Project
> http://www.ijg.org/

Description
> This library provides the ability to encode and decode JPEG image files.

Usage
> Used primarily for the creation of images transmitted from the server.

License
> Custom

License URL
> http://www.ijg.org/files/README

```
The distributed programs provide conversion between JPEG "JFIF" format and image
files in PBMPLUS PPM/PGM, GIF, BMP, and Targa file formats.  The core
compression and decompression library can easily be reused in other programs,
such as image viewers.  The package is highly portable C code; we have tested it
on many machines ranging from PCs to Crays.

We are releasing this software for both noncommercial and commercial use.
Companies are welcome to use it as the basis for JPEG-related products. We do
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make this software industrial-quality --- although, as with anything that's
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For more information, contact jpeg-info@uc.ag.
```

8.33. libjpeg-turbo

Project
> http://libjpeg-turbo.svn.sourceforge.net

Description
> libjpeg-turbo is a derivative of libjpeg that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems.

Usage
> JPEG Compression in Image Pipeline

License
> libjpeg/TurboJPEG License

License URL
> http://libjpeg-turbo.svn.sourceforge.net/viewvc/libjpeg-turbo/trunk/README-turbo.txt

8.34. Mime4j

Project
> http://james.apache.org/mime4j/

Description
> Apache James Mime4J provides a parser, MimeStreamParser , for e-mail message streams in plain rfc822 and MIME format.

Usage
> Network payload parsing and writing.

License
> Apache 2.0

License URL
> http://james.apache.org/license.html

8.35. Httpclient

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

Description
> Although the java.net package provides basic functionality for accessing resources via HTTP, it doesn't provide the full flexibility or functionality needed by many applications. HttpClient 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.

Usage
> HTTP client for Java client STK.

License
> Apache 2.0

License URL
> http://www.apache.org/licenses/

8.36. Httpcore

Project

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

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.

Usage

HTTP components for Java client STK.

License

Apache 2.0

License URL

http://www.apache.org/licenses/

8.37. Google Closure

Project

https://developers.google.com/closure/

Description

The Closure Tools project is an effort by Google engineers to open source the tools used in many of Google's sites and web applications for use by the wider Web development community.

Usage

JavaScript client STK

License

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8.38. JSDoc

Project

https://github.com/jsdoc3/jsdoc

Description

An inline API documentation processor for JavaScript. JSDoc 3 is intended to be an upgrade to JsDoc Toolkit (JSDoc 2).

Usage

JSDoc is used to generate the JavaScript API reference documentation. The JSDoc template used is a slightly modified version of the weswit template provided by LightStreamer: https://github.com/Lightstreamer/weswit-jsdoc-template/tree/master/weswit-template

License

Apache 2.0

License URL

http://www.apache.org/licenses/

8.39. QUnit

Project

http://qunitjs.com/

Description

JavaScript unit testing framework.

Usage

JavaScript client STK build.

License

MIT

License URL

https://jquery.org/license/

8.40. Shake.JS

Project

https://github.com/alexgibson/shake.js/

Description

A custom shake event JavaScript plugin for mobile web browsers using device accelerometer.

Usage

JavaScript scribble sample.

License

Copyright (c) 2013 Alex Gibson (http://alxgbsn.co.uk/)

License URL
    https://github.com/alexgibson/shake.js/blob/master/LICENSE.md

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```

8.41. UTF8.js

Project
    https://github.com/mathiasbynens/utf8.js/
Description
    utf8.js is a well-tested UTF-8 encoder/decoder written in JavaScript. Unlike many other JavaScript solutions, it is designed to be a proper UTF-8 encoder/decoder: it can encode/decode any given Unicode code point, including astral symbols and unpaired surrogates.
Usage
    JavaScript client STK
License
    MIT
License URL
    http://opensource.org/licenses/mit-license.php

8.42. Google 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
    The PureWeb documentation uses Google Prettify for syntax highlighting of code snippets.
License
    Apache 2.0

8.43. Javascript tabifier

Project
    http://www.barelyfitz.com/projects/tabber/
Description
    A solution to convert HTML into a dynamic tabbed interface using plug-and-play JavaScript.
Usage
    The PureWeb documentation uses the JavaScript tabifier to provide tabbed navigation for code snippets.
License
    MIT

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 templates (ten or fewer lines in length), you do both of the following:
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 the Library and its use are covered by this License.
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 the user to recombine or relink the Application with a modified version of the Linked Version to
 produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying
 Corresponding Source.
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 (b) will operate properly with a modified version of the Library that is interface-compatible with
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•e) Provide Installation Information, but only if you would otherwise be required to provide such
 information under section 6 of the GNU GPL, and only to the extent that such information is necessary
 to install and execute a modified version of the Combined Work produced by recombining or relinking
 the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation
 Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you
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 covered by this License, and convey such a combined library under terms of your choice, if you do both
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9.14. Mozilla Public License (MPL) 1.1

URL

http://www.mozilla.org/MPL/MPL-1.1.html

```
00001:                         MOZILLA PUBLIC LICENSE
00002:                              Version 1.1
00003:
00004:                            ---------------
00005:
00006: 1. Definitions.
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00008:     1.0.1. "Commercial Use" means distribution or otherwise making the
00009:     Covered Code available to a third party.
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00011:     1.1. "Contributor" means each entity that creates or contributes to
00012:     the creation of Modifications.
00013:
00014:     1.2. "Contributor Version" means the combination of the Original
00015:     Code, prior Modifications used by a Contributor, and the Modifications
00016:     made by that particular Contributor.
00017:
00018:     1.3. "Covered Code" means the Original Code or Modifications or the
00019:     combination of the Original Code and Modifications, in each case
00020:     including portions thereof.
00021:
00022:     1.4. "Electronic Distribution Mechanism" means a mechanism generally
00023:     accepted in the software development community for the electronic
00024:     transfer of data.
00025:
00026:     1.5. "Executable" means Covered Code in any form other than Source
00027:     Code.
00028:
00029:     1.6. "Initial Developer" means the individual or entity identified
00030:     as the Initial Developer in the Source Code notice required by Exhibit
00031:     A.
00032:
00033:     1.7. "Larger Work" means a work which combines Covered Code or
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00035:
00036:     1.8. "License" means this document.
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00040:     subsequently acquired, any and all of the rights conveyed herein.
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00042:     1.9. "Modifications" means any addition to or deletion from the
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00044:     Modifications. When Covered Code is released as a series of files, a
00045:     Modification is:
00046:         A. Any addition to or deletion from the contents of a file
00047:         containing Original Code or previous Modifications.
00048:
00049:         B. Any new file that contains any part of the Original Code or
00050:         previous Modifications.
00051:
00052:     1.10. "Original Code" means Source Code of computer software code
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00060:
00061:     1.11. "Source Code" means the preferred form of the Covered Code for
00062:     making modifications to it, including all modules it contains, plus
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00064:     compilation and installation of an Executable, or source code
00065:     differential comparisons against either the Original Code or another
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00069:     for no charge.
00070:
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00079:     (50%) of the outstanding shares or beneficial ownership of such
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00081:
00082: 2. Source Code License.
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00091:               Code (or portions thereof) with or without Modifications, and/or
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00094:               (b) under Patents Claims infringed by the making, using or
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00129:               (c) the licenses granted in Sections 2.2(a) and 2.2(b) are
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00170:
00171:          3.3. Description of Modifications.
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00174:          the date of any change. You must include a prominent statement that
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00178:          Executable version or related documentation in which You describe the
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00180:
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00196:
00197:            (b) Contributor APIs.
00198:            If Contributor's Modifications include an application programming
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00203:            (c)    Representations.
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00227:        Initial Developer or such Contributor as a result of warranty,
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00268:        extent prohibited by statute or regulation, such description must be
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00272: 5. Application of this License.
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00274:        This License applies to code to which the Initial Developer has
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00276:
00277: 6. Versions of the License.
00278:
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00332:        You file such action is referred to as "Participant")  alleging that:
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00334:        (a)  such Participant's Contributor Version directly or indirectly
00335:        infringes any patent, then any and all rights granted by such
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00337:        shall, upon 60 days notice from Participant terminate prospectively,
00338:        unless if within 60 days after receipt of notice You either: (i)
00339:        agree in writing to pay Participant a mutually agreeable reasonable
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00355:
00356:        8.3.  If You assert a patent infringement claim against Participant
00357:        alleging that such Participant's Contributor Version directly or
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00359:        by license or settlement) prior to the initiation of patent
00360:        infringement litigation, then the reasonable value of the licenses
00361:        granted by such Participant under Sections 2.1 or 2.2 shall be taken
00362:        into account in determining the amount or value of any payment or
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00365:        8.4.  In the event of termination under Sections 8.1 or 8.2 above,
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00367:        which have been validly granted by You or any distributor hereunder
00368:        prior to termination shall survive termination.
00369:
00370: 9. LIMITATION OF LIABILITY.
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00372:        UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
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9.15. ZLIB

URL

http://www.zlib.net/zlib_license.html

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