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<b>CM_CI1</b>	<b>CM_AI_PRJ_RN_AIVI_Scope2.1</b>	<b>5<sup>th</sup> Jan 2021</b>


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## 1 List of used Open Source Components.

This document contains a list of open source software (OSS) components used within the product under the terms of the respective licenses. The source code corresponding to the open source components is also provided along with the product wherever mandated by the respective OSS license

Sl.No	Name of OSS Component	Version of OSS Component	Name and Version of License (License text can be found in Appendix below)	Home Page	More Information
1.	fastlz	0.1.0	MIT License	<a href="http://code.google.com/p/fastlz/">http://code.google.com/p/fastlz/</a>	Copyright (C) 2005,2006,2007 Ariya Hidayat (ariya@kde.org)
2.	RFC1321-based (RSA-free) MD5 library	1.6	zlib License	<a href="http://sourceforge.net/projects/libmd5-rfc/">http://sourceforge.net/projects/libmd5-rfc/</a>	Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved
3.	sqlite3	3.7.5	Public Domain	<a href="http://rubygems.org/gems/sqlite3">http://rubygems.org/gems/sqlite3</a>	
4.	AES - Advanced Encryption Standard	1.0	zlib License	<a href="http://www.lomont.org/Software/Misc/AES/AES.php">http://www.lomont.org/Software/Misc/AES/AES.php</a>	2000-2005 Chris Lomont
5.	Alsa Libraries	1.0.29	GNU Lesser General Public License v2.1 or later	<a href="https://www.alsa-project.org/wiki/ALSA_Library_API">https://www.alsa-project.org/wiki/ALSA_Library_API</a>	2010 Red Hat Inc.
6.	Android - platform - bootable - recovery	NA	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	2007 The Android Open Source Project
7.	asn1c	0.9.27	BSD 2-clause	<a href="http://github">http://github</a>	Copyright © 2004, 2006


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			"Simplified" License	b.com/vlm/ asn1c/	Lev Walkin <vlm@lionet.info>. All rights reserved, Copyright © 2003, 2004 X/IO Labs, xiolabs.com
8.	Boost C++ Libraries - boost	1.58.0, 1.57.0, 1.50.0	Boost Software License 1.0	<a href="http://boost.org/">http://boost .org/</a>	Rene Rivera 2008-2013 Microsoft Corporation 2014 Franz Detro 2014
9.	Cairo Vector Graphics Library	1.14.2	GNU Lesser General Public License v2.1 or later	<a href="http://cairographics.org/introduction">http://cairo graphics.org /introductio n</a>	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	Collabora	Unspec ified	Mozilla Public License 2.0	<a href="https://www.collaboraoffice.com/">https://ww w.collabora office.com/</a>	Copyright © 2016 Collabora Ltd
11.	ConnMan	1.35	GNU General Public License v2.0 only	<a href="http://connman.net/">http://conn man.net/</a>	2007-2012 Intel Corporation. All rights reserved.
12.	curl	7.59.0, 7.52.1	curl License	<a href="https://curl.haxx.se/">https://curl. haxx.se/</a>	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al
13.	CVTUTF	1.0	Unicode License	<a href="http://www.unicode.org/Public/PROGRAMS/CVTUTF">http://www .unicode.or g/Public/PR OGRAMS/C VTUTF</a>	2001 Unicode, Inc. <a href="http://unicode.org/">http://unicode.org/</a>
14.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	<a href="http://www.freedesktop.org/wiki/IntroductionToDBus">http://www .freedeskto p.org/wiki/I ntroduction ToDBus</a>	2003 CodeFactory AB
15.	Developers Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	<a href="http://sourceforge.net/projects/openil/">http://sourc eforge.net/ projects/op enil/</a>	2000-2009 by Denton Woods, 2001 David Galeano
16.	ECNR	NA	Academic Free		2010 © MontaVista


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			License v2.1		Software, LLC.
17.	Filesystem in Userspace	2.9.4	GNU Library General Public License v2 or later	<a href="http://sourceforge.net/projects/fuse/">http://sourceforge.net/projects/fuse/</a>	2001-2007 Miklos Szeredi
18.	Fontconfig	2.11.94	MIT License	<a href="http://freedesktop.org/wiki/Software/fontconfig">http://freedesktop.org/wiki/Software/fontconfig</a>	2001 Keith Packard
19.	Free Image	3.15.4, 3.17.0	FreeImage Public License v1.0	<a href="http://freeimage.sourceforge.net/">http://freeimage.sourceforge.net/</a>	1991-1998, Thomas G. Lane., 1994 Anthony Dekker
20.	GCC	4.8.3, 5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	<a href="http://gcc.gnu.org/">http://gcc.gnu.org/</a>	2004-2013 Free Software Foundation, Inc
21.	GDK-Pixbuf	2.0, 2.30.8	GNU Library General Public License v2 or later	<a href="http://www.gnome.org/">http://www.gnome.org/</a>	2003 The Free Software Foundation
22.	GENIVI Audio Manager	3.2,1.1, 4.2	Mozilla Public License 2.0	<a href="https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager">https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager</a>	2012 Continental Automotive Systems, Inc, 2012, BMW AG
23.	GENIVI Diagnostic Log and Trace Daemon	2.16.0	Mozilla Public License 2.0	<a href="http://projects.genivi.org/diagnostic-log-trace/">http://projects.genivi.org/diagnostic-log-trace/</a>	2011-2015, BMW AG
24.	GENIVI IVI Layer Management	0.9.9, 1.2.0	Apache License 2.0	<a href="https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management">https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management</a>	2010, 2011 BMW Car IT GmbH, 2012, NVIDIA CORPORATION




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25.	GLib	2.0.0, 2.32.4, 2.44.1	GNU Library General Public License v2 or later	<a href="http://library.gnome.org/devel/glib/">http://library.gnome.org/devel/glib/</a>	2010 Codethink Limited
26.	GNU C Library - glibc	2.22,2. 19	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnu.org/software/libc/libc.html">http://www.gnu.org/software/libc/libc.html</a>	2007-2013 Free Software Foundation, Inc.1983, 1989, 1993 The Regents of the University of California. All rights reserved.
27.	GStreamer	0.10.36 , 0.10	GNU Library General Public License v2 or later	<a href="http://gstreamer.freedesktop.org/modules/">http://gstreamer.freedesktop.org/modules/</a>	1999,2000 Erik Walthinsen <omega@cse.ogi.edu>  2000 Wim Taymans <wtay@chello.be>
28.	HarfBuzz	1.3.1, 1.0.2, 0.9.18	MIT License	<a href="http://freedesktop.org/wiki/Software/HarfBuzz">http://freedesktop.org/wiki/Software/HarfBuzz</a>	2007 Chris Wilson ,2009,2010 Red Hat, Inc. 2011,2012 Google, Inc
29.	ICU - International Components for Unicode	55.1, 4.6.1	ICU License	<a href="http://www-306.ibm.com/software/globalization/icu/index.jsp">http://www-306.ibm.com/software/globalization/icu/index.jsp</a>	Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved. Copyright 2007 Google Inc. All Rights Reserved, 1991-2011 Unicode
30.	IPTables	1.4.21	GNU General Public License v2.0 or later	<a href="http://www.netfilter.org/">http://www.netfilter.org/</a>	Copyright (C) 2016 Robert Bosch Car Multimedia GmbH
31.	JSON-C	0.12.0	MIT License	<a href="http://oss.metaparadigm.com/json-c/">http://oss.metaparadigm.com/json-c/</a>	Copyright (c) 2004, 2005 Metaparadigm Pte. Ltd.  Michael Clark <michael@metaparadigm.com>  Copyright (c) 2009 Hewlett-Packard Development Company, L.P

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32.	jsoncpp	1.7.7	MIT License	<a href="http://sourceforge.net/projects/jsoncpp/">http://sourceforge.net/projects/jsoncpp/</a>	2007-2010 Baptiste Lepilleur,
33.	Khronos Group - OpenGL ES	3.0, 2.0	MIT License	<a href="http://www.khronos.org/opengles/">http://www.khronos.org/opengles/</a>	2007-2013 The Khronos Group Inc;  Confirmed By:Schoenfelder, Thorsten (ADITG/SW2) [tschoenfelder@de.adit-jv.com]
34.	Kmod	4,21	GNU Lesser General Public License v2.1 or later	<a href="https://www.kernel.org/pub/linux/utils/kernel/kmod/">https://www.kernel.org/pub/linux/utils/kernel/kmod/</a>	2011-2013 ProFUSION embedded systems
35.	Lib Cap	2.24	BSD 3-clause "New" or "Revised" License	<a href="http://sites.google.com/site/fullycapable/">http://sites.google.com/site/fullycapable/</a>	Copyright (C) 1997 Aleph One Copyright (C) 1997-8,2008 Andrew G. Morgan <morgan@kernel.org>
36.	libblkid	NA	GNU Lesser General Public License v2.1 or later	<a href="http://linux.die.net/man/3/libblkid">http://linux.die.net/man/3/libblkid</a>	Copyright (C) 2001 Andreas Dilger Copyright (C) 2003 Theodore Tso Copyright (C) 2008 Karel Zak <kzak@redhat.com>
37.	libdrm	2.4.46, 2.4.62	MIT License	<a href="http://dri.freedesktop.org/wiki/">http://dri.freedesktop.org/wiki/</a>	2013-2014 Mentor Graphics 1999 Precision Insight, Inc., Cedar Park, Texas. 2000 VA Linux Systems, Inc., Sunnyvale, California. All rights reserved. 2007 Dave Airlie <airlied@linux.ie>
38.	libgcrypt	1.5.3, 1.6.3	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnupg.org">http://www.gnupg.org</a>	Copyright (C) 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2012, 2013 g10 Code GmbH

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39.	Libgpg-error Lib	1.12, 1.19	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnupg.org/">http://www.gnupg.org/</a>	Copyright (C) 2003, 2004, 2010, 2013 g10 Code GmbH
40.	libjpeg	9a,8b,8d,9	Independent JPEG Group License	<a href="http://www.ijg.org/">http://www.ijg.org/</a>	Copyright (C) 1994-1997, Thomas G. Lane
41.	libmtp	1.1.6, 1.1.5	GNU Library General Public License v2 or later	<a href="http://sourceforge.net/projects/libmtp/">http://sourceforge.net/projects/libmtp/</a>	Copyright (C) 2005-2012 Linus Walleij <triad@df.lth.se> Copyright (C) 2005-2008 Richard A. Low <richard@wentnet.com> Copyright (C) 2007 Ted Bullock <tbullock@canada.com> Copyright (C) 2008 Florent Mertens <flomertens@gmail.com>
42.	libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	<a href="http://www.infradead.org/~tgr/libnl/">http://www.infradead.org/~tgr/libnl/</a>	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
43.	libsigs++	2.2.11	GNU Lesser General Public License v2.1 or later	<a href="http://libsigs.c.sourceforge.net/">http://libsigs.c.sourceforge.net/</a>	2002, The libsigs++ Development Team
44.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	<a href="http://www.mega-nerd.com/libsndfile/">http://www.mega-nerd.com/libsndfile/</a>	Copyright (C) 1999-2011 Erik de Castro Lopo <erikd@mega-nerd.com>
45.	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	<a href="https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master">https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master</a>	2013 Jörn Magens

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72.	Totem Playlist Parser	3.4.5	GNU Library General Public License v2 or later	<a href="https://developer.gnome.org/totem-pl-parser/stable/index.html">https://developer.gnome.org/totem-pl-parser/stable/index.html</a>	2009, Nokia, 2002, 2003, 2004, 2005, 2006 Bastien Nocera, Copyright (C) 2003 Colin Walters <walters@verbum.org>
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265	USB Utils	008	GNU General Public License v2.0 or later	<a href="https://www.kernel.org/pub/linux/utils/usb/usbutils/">https://www.kernel.org/pub/linux/utils/usb/usbutils/</a>	Copyright (C) 2003 Aurelien Jarno (aurelien@aurel32.net), Copyright (C) 1999, 2000 Thomas Sailer (sailer@ife.ee.ethz.ch), Copyright (C) 2013 Tom Gundersen (teg@jklm.no), Copyright (C) 2003-2005 David Brownell, Copyright

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270	v4utils_libdvbv5	1.6.2	GNU General Public License v2.0 only	<a href="http://git.linuextv.org/v4l-utils.git">http://git.linuextv.org/v4l-utils.git</a>	Copyright © 2011-2014 - Mauro Carvalho Chehab, Copyright © 1999-2003 Mark W. McClelland. All rights reserved. Copyright 1998-2000 OmniVision

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					Technologies.
271	v4utils_libv4l	1.6.2	GNU Lesser General Public License v2.1 or later	<a href="http://git.linuxtv.org/v4l-utils.git">http://git.linuxtv.org/v4l-utils.git</a>	Copyright (C) 2008-2011 Hans de Goede <hdegoede@redhat.com>, Copyright (C) 2009, 2012 Mauro Carvalho Chehab, Copyright (C) 2003-2009 Bill Dirks <bill@thedirks.org>, Copyright (C) 2008-2009 Elmar Kleijn <elmar_kleijn@hotmail.com>, Copyright (C) 2008-2009 Sjoerd Piepenbrink <need4weed@gmail.com>, Copyright (C) 2008-2009 Radjnies Bhansingh <radjnies@gmail.com> Copyright (C) 2010 Nokia Corporation <multimedia@maemo.org>, Copyright (C) 2009 Hans Verkuil <hverkuil@xs4all.nl>, Copyright © 2004-2009, 2010 Theodore Kilgore <kilgota@auburn.edu>, Copyright © 2003 Sylvain Munaut <nw8xx[at]246tNt.com>, Copyright © 2005 Bertrik.Sikken, Thomas Kaiser. Copyright (C) 2003 2004 2005 Michel Xhaard, Copyright (C) 2005 Andrzej Szombierski [qq@kuku.eu.org].
272	v4utils_libv4l2rds	1.6.2	GNU Lesser General Public License v2.1 or later	<a href="http://git.linuxtv.org/v4l-utils.git">http://git.linuxtv.org/v4l-utils.git</a>	Copyright 2012 Cisco Systems, Inc. and/or its affiliates. All rights


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292	NeuQuant Neural-Net Quantization Algorithm	Unspecified	NeuQuant Neural-Net Quantization Algorithm License		Copyright (c) 1994 Anthony Dekker
293	RBTree.cpp	NA	Public Domain		(C) Socionext Embedded Software Austria GmbH (SESA)
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				s.net/tools/xmlParser.html	
295	gumbo-parser	NA	Apache License 2.0	<a href="http://github.com/google/gumbo-parser/">http://github.com/google/gumbo-parser/</a>	Copyright 2012 Google Inc. All Rights Reserved.
296	lua-5	2.0-beta	MIT License	<a href="http://github.com/fanf2/lua-5/">http://github.com/fanf2/lua-5/</a>	1994-2016 Lua.org, PUC-Rio
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##### v. 2.1

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Version 3.1, 31 March 2009

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## 2.24 ICU License

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### **3.1.21 LibTomCrypt - 1.16**

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### **3.1.22 LibTomMath - 0.39**

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### **3.1.23 Base64.java - 2.3.5.2.**

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### **3.1.25 ExtractMpeg FramesTest. java**

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### **3.1.26 Libupnp (pupnp) - 1.6.19**

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### **3.1.30 Pythonpsutil\_2.1.3.bb**

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### **3.1.34 Action - 0.1.1**

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### **3.1.37 Android SDK Support Libraries – 19,23.1.1**

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### **3.1.38 Android SDK Support Libraries**

Drools:: Scorecards - 5.5.0.Final

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Home Page: <http://github.com/Label305/Stan-for-Android/>

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### **3.1.44 SafeSlinger-Android - 1.8.3-messenger**

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### **3.1.58 lz4 Compression algorithm - r111**

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### **3.1.59 Android -platform - system - core/libmincrypt**

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### **3.1.63 Bsdiff - 4.3**

Home Page: <http://github.com/geraldonetto/bsdiff/>

Home Page: <http://www.daemonology.net/bsdiff/>

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### **3.1.64 GNU C Library – glibc - 2.2.4**

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### **3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0**

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### **3.1.66 squashfs - a compressed fs for Linux - squashfs4.3**

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### **3.1.68 Libdivsufsort - 2.0.0**

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### **3.1.69 Test-SQLite-blob - trunk-20120916-svn**

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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RealVNC has made the following modifications to OpenSSL 0.9.8zf:


- The hard-coding of config options in opensslconf.h.
- The addition of compile-time
- 
- s to remove dependencies of the C stio library and on Win32 UI.
- The addition of compile-time checks to remove filename strings from release binaries.

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

Also, the png

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Glenn Randers-Pehrson  
glennrp at  
users.sourceforge.net  
September 10, 2009

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#### **3.2.10.1 Dieter Baron and Thomas Klausner (see the files zip.h and zipint.h):**


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This file is part of libzip, a library to manipulate ZIP archives.

The authors can be contacted at <libzip@nih.at>

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#### **3.2.10.4 RealVNC modifications to libzip**

The open source component used by *VNC Automotive* consists of the lib subdirectory of libzip 0.9, plus two variants on the corresponding config.h template. Three modifications have been made, as follows:

- libzip.vcproj has been added.
- On Windows, in libzip.h and zipint.h, no-op ZIP\_EXTERN so that we build for linking statically.

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- On Windows, in mkstemp.c, pid\_t and S\_ISDIR have been defined, and io.h and process.h included.

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### **3.2.13 GCC libstdc++**

This is not in our source delivery, but is statically linked in to our binary deliveries from the specified version of GCC. See <http://gcc.gnu.org/libstdc++> or <http://gcc.gnu.org/releases.html> for more information.

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#### **3.2.19.5 RealVNC modifications to libxml2**

This is libxml2-2.9.1. Some small changes have been made to allow it to build for QNX and Android.

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### **3.2.20.3 RealVNC modifications to**

**miniupnpc** The following modifications

have been made:

- Requests have been cancelled.
- MirrorLink-specific functionality has been added.
- Functionality specific to building for different hardware architectures has been added.

### **3.2.21 LibTomCrypt**

LibTomCrypt, modular cryptographic library -- Tom St Denis


LibTomCrypt is a library that provides various cryptographic algorithms in a highly modular and flexible manner.

The library is free for all purposes without any express guarantee it works.

Tom St Denis, tomstdenis@gmail.com, <http://libtomcrypt.com>

### **3.2.22 LibTomMath**

LibTomMath, multiple-precision integer library -- Tom St Denis

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LibTomMath is a library that provides multiple-precision integer arithmetic as well as number theoretic functionality.

The library was designed directly after the MPI library by Michael Fromberger but has been written from scratch with additional optimizations in place.

The library is free for all purposes without any express guarantee it works.

Tom St Denis, tomstdenis@gmail.com, <http://math.libtomcrypt.com>

### **3.2.23 Base64.java**

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Please visit <http://iharder.net/base64> periodically to check for updates or to contribute improvements.

@author Robert Harder

@author rob@iharder.net

@version 2.3.5.2.

### **3.2.24 Internal Android OS APIs**

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### **3.2.25 ExtractMpegFramesTest.java**

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### **3.2.26 libupnp (pupnp)**

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### **3.2.27 libudev**

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### **3.2.28 WPA Supplicant**

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### **3.2.28.1 RealVNC modifications to WPA Supplicant**

RealVNC has applied the following patch:

<http://w1.fi/cgiit/hostap/patch/?id=f2b3acc9d5.2.b91fbaccfc9dd8d408>

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### **3.2.28.2 ath9k\_faf1dc64\_backport.patch**

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### **3.2.28.3 python-psutil\_2.1.3.bb**


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### **3.2.30 VNC Wi-Fi Display i.MX6 sample decoder**


The information in this section expands upon that summarized in section 6.2, *VNC Wi-Fi Display i.MX6 sample decoder*.

### **3.2.31 mxcfb.h**

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### **3.2.32 axTLS**

axTLS Embedded SSL

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### **3.2.32 RealVNC modifications to axTLS**

Some unwanted type and function definitions have been removed.