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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	12th Oct 2020

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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

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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	http://code.google.com/p/fastlz/	Copyright (C) 2005,2006,2007 Ariya Hidayat (ariya@kde.org)
2.	RFC1321-based (RSA-free) MD5 library	1.6	zlib License	http://sourceforge.net/projects/libmd5-rfc/	Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved
3.	sqlite3	3.7.5	Public Domain	http://rubygems.org/gems/sqlite3	
4.	AES - Advanced Encryption Standard	1.0	zlib License	http://www.lomont.org/Software/Misc/AES/AES.php	2000-2005 Chris Lomont
5.	Alsa Libraries	1.0.29	GNU Lesser General Public License v2.1 or later	https://www.alsa-project.org/wiki/ALSA_Library_API	2010 Red Hat Inc.
6.	Android - platform - bootable - recovery	NA	Apache License 2.0	http://developer.android.com/index.html	2007 The Android Open Source Project
7.	asn1c	0.9.27	BSD 2-clause "Simplified" License	http://github.com/vlm/asn1c/	Copyright © 2004, 2006 Lev Walkin <vlm@lionet.info>. All rights reserved, Copyright

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					© 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	http://boost.org/	Rene Rivera 2008-2013 Microsoft Corporation 2014 Franz Detroyer 2014
9.	Cairo Vector Graphics Library	1.14.2	GNU Lesser General Public License v2.1 or later	http://cairographics.org/introduction	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	ConnMan	1.35	GNU General Public License v2.0 only	http://connman.net/	2007-2012 Intel Corporation. All rights reserved.
11.	curl	7.59.0, 7.52.1	curl License	https://curl.haxx.se/	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al
12.	CVTUTF	1.0	Unicode License	http://www.unicode.org/Public/PROGRAMS/CVTUTF	2001 Unicode, Inc. http://unicode.org/
13.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionToDBus	2003 CodeFactory AB
14.	Developers Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/openil/	2000-2009 by Denton Woods, 2001 David Galeano
15.	ECNR	NA	Academic Free License v2.1		2010 © MontaVista Software, LLC.
16.	Filesystem in Userspace	2.9.4	GNU Library General Public License v2 or later	http://sourceforge.net/projects/fuse/	2001-2007 Miklos Szeredi
17.	Fontconfig	2.11.94	MIT License	http://freed	2001 Keith Packard

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				esktop.org/ wiki/Softwa re/fontconfi g	
18.	Free Image	3.15.4, 3.17.0	FreeImage Public License v1.0	http://freei mage.sourc eforge.net/	1991-1998, Thomas G. Lane., 1994 Anthony Dekker
19.	GCC	4.8.3, 5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	http://gcc.g nu.org/	2004-2013 Free Software Foundation, Inc
20.	GDK-Pixbuf	2.0, 2.30.8	GNU Library General Public License v2 or later	http://www .gnome.org/	2003 The Free Software Foundation
21.	GENIVI Audio Manager	3.2,1.1, 4.2	Mozilla Public License 2.0	https://at.p rojects.geni vi.org/wiki/ display/PRO J/Audio+Ma nager	2012 Continental Automotive Systems, Inc,2012, BMW AG
22.	GENIVI Diagnostic Log and Trace Daemon	2.16.0	Mozilla Public License 2.0	http://proje cts.genivi.or g/diagnostic -log-trace/	2011-2015, BMW AG
23.	GENIVI IVI Layer Management	0.9.9, 1.2.0	Apache License 2.0	https://at.p rojects.geni vi.org/wiki/ display/PRO J/IVI+Layer+ Manageme nt	2010,2011 BMW Car IT GmbH, 2012, NVIDIA CORPORATION
24.	GLib	2.0.0, 2.32.4, 2.44.1	GNU Library General Public License v2 or later	http://librar y.gnome.or g/devel/glib /	2010 Codethink Limited
25.	GNU C Library - glibc	2.22,2. 19	GNU Lesser General Public License v2.1 or later	http://www .gnu.org/sof tware/libc/li	2007-2013 Free Software Foundation, Inc.1983, 1989, 1993 The Regents of

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26.	GStreamer	0.10.36 , 0.10	GNU Library General Public License v2 or later	<a href="http://gstre
amer.freede
sktop.org/m
odules/">http://gstre amer.freede sktop.org/m odules/	1999,2000 Erik Walthinsen <omega@cse.ogi.edu> 2000 Wim Taymans <wtay@chello.be>
27.	HarfBuzz	1.3.1, 1.0.2, 0.9.18	MIT License	<a href="http://freed
esktop.org/
wiki/Softwa
re/HarfBuzz">http://freed esktop.org/ wiki/Softwa re/HarfBuzz	2007 Chris Wilson ,2009,2010 Red Hat, Inc. 2011,2012 Google, Inc
28.	ICU - International Components for Unicode	55.1, 4.6.1	ICU License	<a href="http://www
-
306.ibm.co
m/software
/globalizatio
n/icu/index.
jsp">http://www - 306.ibm.co m/software /globalizatio n/icu/index. jsp	Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved. Copyright 2007 Google Inc. All Rights Reserved, 1991- 2011 Unicode
29.	IPTables	1.4.21	GNU General Public License v2.0 or later	<a href="http://www
.netfilter.or
g/">http://www .netfilter.or g/	Copyright (C) 2016 Robert Bosch Car Multimedia Gmb H
30.	JSON-C	0.12.0	MIT License	<a href="http://oss.
metaparadi
gm.com/jso
n-c/">http://oss. metaparadi gm.com/jso n-c/	Copyright (c) 2004, 2005 Metaparadigm Pte. Ltd. Michael Clark <michael@metaparadigm. com> Copyright (c) 2009 Hewlett-Packard Development Company, L.P
31.	jsoncpp	1.7.7	MIT License	<a href="http://sourc
eforge.net/
projects/jso
ncpp/">http://sourc eforge.net/ projects/jso ncpp/	2007-2010 Baptiste Lepilleur,
32.	Khronos Group - OpenGL ES	3.0, 2.0	MIT License	<a href="http://www
.khronos.or
g/opengles/">http://www .khronos.or g/opengles/	2007-2013 The Khronos Group Inc; Confirmed

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					By:Schoenfelder, Thorsten (ADITG/SW2) [tschoenfelder@de.adit-jv.com]
33.	Kmod	4,21	GNU Lesser General Public License v2.1 or later	https://www.kernel.org/pub/linux/utils/kernel/kmod/	2011-2013 ProFUSION embedded systems
34.	Lib Cap	2.24	BSD 3-clause "New" or "Revised" License	http://sites.google.com/site/fullycachable/	Copyright (C) 1997 Aleph One Copyright (C) 1997-8,2008 Andrew G. Morgan <morgan@kernel.org>
35.	libblkid	NA	GNU Lesser General Public License v2.1 or later	http://linux.die.net/man/3/libblkid	Copyright (C) 2001 Andreas Dilger Copyright (C) 2003 Theodore Tso Copyright (C) 2008 Karel Zak <kzak@redhat.com>
36.	libdrm	2.4.46, 2.4.62	MIT License	http://dri.freedesktop.org/wiki/	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>
37.	libgcrypt	1.5.3, 1.6.3	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org	Copyright (C) 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2012, 2013 g10 Code GmbH
38.	Libgpg-error Lib	1.12, 1.19	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org/	Copyright (C) 2003, 2004, 2010, 2013 g10 Code GmbH
39.	libjpeg	9a,8b, 8d,9	Independent JPEG Group License	http://www.ijg.org/	Copyright (C) 1994-1997, Thomas G. Lane
40.	libmtp	1.1.6, 1.1.5	GNU Library General Public	http://sourceforge.net/	Copyright (C) 2005-2012 Linus Walleij

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41.	libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	http://www .infradead.o rg/~tgr/libnl /	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
42.	libsigt++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsig c.sourceforge e.net/	2002, The libsigc++ Development Team
43.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	http://www .mega- nerd.com/li bsndfile/	Copyright (C) 1999- 2011 Erik de Castro Lopo <erikd@mega-nerd.com>
44.	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	https://bitb ucket.org/s huerhaaken /libtaginfo/s rc/4c8c4f83 9907cd3773 1963fb7db2 ca7a8bc84b 38?at=mast er	2013 Jörn Magens
45.	LIBUNIBREAK	2.1	zlib License	http://vimg adgets.sour ceforge.net/ libunibreak/	2008-2011 Wu Yongwei, 2012 Tom Hacohen <tom@stosb.com>
46.	Libunwind	Unspecif ied, 1.1	MIT License	http://sava nnah.nongn u.org/projec ts/libunwin	(C) 2008 CodeSourcery Copyright (C) 2002-2004

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47.	libusb	1.0, 1.0.19, 0.1.5	GNU Lesser General Public License v2.1 or later	http://libusb.org/	Copyright © 2001 Johannes Erdfelt <johannes@erdfelt.com> Copyright © 2007-2008 Daniel Drake <dsd@gentoo.org> Copyright © 2012 Pete Batard <pete@akeo.ie> Copyright © 2012 Nathan Hjelm
48.	libxml2	2.9.2, 2.9.8	MIT License	http://xmlsoft.org/	2000,2012 Bjorn Reese and Daniel Veillard
49.	Linux Kernel	3.14.79	GNU General Public License v2.0 only	http://www.kernel.org/	1999-2010 David Woodhouse ,Linux Kernel Organization, Inc,Copyright (C) 2001 by Andreas Gruenbacher <a.gruenbacher@compute r.org> Copyright © 2001- 2002 Silicon Graphics, Inc. All Rights Reserved. Copyright © 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
50.	litehtml	Unspec ified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/litehtml/	Copyright (C) 1994-1997, Thomas G. Lane.
51.	Lua - Post 4.x	5.2.3,5. 3.3	Lua 5.0 License	http://www.lua.org/	1994-2016 Lua.org, PUC- Rio
52.	lxc	Unspec ified	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008
53.	mDNSResponder	Unspec ified, 625.41. 2	Apache License 2.0	http://github.com/Apple/mDNSResponder/	2003-2013 Apple Computer, Inc. All rights reserved

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54.	mosquitto: an mqtt message broker	1.3.4	BSD 3-clause "New" or "Revised" License	https://laun.chpad.net/mosquitto	Copyright (c) 2010-2014 Roger Light <roger@atchoo.org>All rights reserved
55.	mosquitto: an mqtt message broker	1.4.13	Eclipse Public License 1.0	https://laun.chpad.net/mosquitto	Copyright © 2010-2014 Roger Light <roger@atchoo.org> All rights reserved
56.	NeuQuant - Neural Image Quantization	Unspecified	NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~d Dekker/NEUQUANT.HT ML	1994 Anthony Dekker
57.	OpenSSL	NA, 1.0.2n, 1.0.2q	OpenSSL Combined License	http://www.openssl.org/	Copyright (C) 1995-1998 Eric Young All rights reserved
58.	PNG reference library: libpng - libpng-stable	1.6.32, 1.6.19	libpng License	http://sourceforge.net/projects/libpng/	Copyright © 1998-2012 Glenn Randers-Pehrson Copyright © 1998-2013 Glenn Randers-Pehrson * Version 0.96 Copyright © 1996, 1997 Andreas Dilger Version 0.88 Copyright © 1995, 1996 Guy Eric Schalnat, Group 42, Inc
59.	protobuf	2.3.0, 3.0.0	BSD 3-clause "New" or "Revised" License	http://github.com/localshred/protobuf/	Copyright 2008 Google Inc
60.	QRCode	0.0.1	MIT License	https://github.com/richmoo/QRCode	Copyright © 2017 Richard Moore
61.	qt5	5.6.1	LGPL 2.1 or later with Qt Company LGPL Exception	http://github.com/qtproject/qt5/	© 2015 The Qt Company Ltd.

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62.	RBTree algorithm	Unspecified	Public Domain	http://eternallyconfuzzled.com/tuts/datastructures/jswtut_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
63.	RealVNC	Unspecified	VNC END USER LICENSE AGREEMENT	http://www.realvnc.com/	2002-2018 RealVNC Ltd. All Rights Reserved
64.	SQLite	3.8.7.4, 3.8.7.2, 3.13.0, 3.21.0, 3.26.0, 3.15.0, 3.7.15	Public Domain	http://www.sqlite.org/	No Copyright
65.	systemd	Unspecified, 225	GNU Lesser General Public License v2.1 or later	http://freedesktop.org/wiki/Software/systemd/	2013 Lennart Poettering
66.	Tadween	1.0.4	MIT License	http://sourceforge.net/projects/tadween/	2009 Mohammad Arabix (mohammadhi at gmail dot com)
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2006-Jan-27

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Our home page can be found at

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2.17 GCC Runtime Library Exception 3.1 to GPL 3.0

GCC Runtime Library Exception 3.1 to GPL 3.0

Version 3.1, 31 March 2009

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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.

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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

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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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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.

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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.

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non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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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.

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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.)

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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.

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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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3.1.60 lucy search engine – lucy - 0.6.0

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3.1.63 Bsdiff - 4.3

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- 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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5.2.10.3 The Regents of the University of California (see the file mkstemp.c):

Adapted from NetBSB libc by Dieter Baron

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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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3.2.12 LodePNG

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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.

3.2.14 keysymdef

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3.2.18 portaudio

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3.2.19 libxml2

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3.2.19.2 hash.c

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3.2.19.4 trio.c, trio.h

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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.

3.2.20 miniupnp

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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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3.2.28.1 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

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3.2.32 RealVNC modifications to axTLS

Some unwanted type and function definitions have been removed.