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SI 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) 2007 Ariya Hidayat (ariya@kde.org) Copyright (C) 2006 Ariya Hidayat (ariya@kde.org) Copyright (C) 2005 Ariya Hidayat
2	RFC1321-based (RSA-free) MD5 library	1.6	zlib License	http://sourceforge.net/projects/libmd5-rfc/	Copyright:1999, 2000, 2002 Aladdin Enterprises
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	Copyright 2000-2005 Chris Lomont
5	Alsa Libraries	1.0.29	GNU Lesser General Public License v2.1 or	ftp://ftp.alsa-project.org/pub/lib	1998-2001 Jaroslav Kysela, Abramo Bagnara,

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			later		Takashi Iwai
6	Android - platform - bootable - recovery		Apache License 2.0	http://developer.android.com/index.html	2007 The Android Open Source Project
7	Boost C++ Libraries - boost	1.57.0, 1.58.0	Boost Software License 1.0	http://boost.org/	Copyright Rene Rivera 2008-2013 Copyright Rene Rivera 2011-2013 Copyright Rene Rivera 2008-2014 Copyright Franz Detro 2014 Copyright © Microsoft Corporation 2014 Copyright Rene Rivera 2011-2012 Copyright Rene Rivera 2005 Copyright Franz Detro 2014
8	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 Copyright: © 2005 Red Hat, Inc 2006 Red Hat, Inc © 2002 University of Southern California
9	curl	7.59.0	curl License	https://curl.haxx.se/	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al

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10	CVTUTF	1.0	Unicode License	http://www.unicode.org/Public/PROGRAMS/CVT UTF	Copyright:2001-2004 Unicode, Inc
11	D-Bus	1.0	Academic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionT oDBus	2003 CodeFactory AB
12	D-bus Bluetooth Daemon	NA	Academic Free License v2.1		
13	Developers Image Library - Devil	1.7.8	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/openil/	Copyright;2000-2009 by Denton Woods
14	ECNR	NA	Academic Free License v2.1		2010 © MontaVista Software, LLC.
15	EXIF Tag Parsing Library - libexif	0.6.21	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects/libexif/	Identified by-Chetan Jayatheertha(RBE I/ECT3) Homepage : http://libexif.sourceforge.net/ Clarification needed on the Usage.
16	Fontconfig	2.11.94	MIT License	http://freedesktop.org/wiki/Software/fontconfig	2001 Keith Packard
17	Freemag e	3.17.0	Freemage Public License v1.0	http://sourceforge.net/projects/freemage/	1991-1998, Thomas G. Lane.1994 Antony Dekker
18	GCC	5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	http://gcc.gnu.org/	2004-2013 Free Software Foundation, Inc

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20	GENIVI Diagnostic Log and Trace Daemon	2.15.0	Mozilla Public License 2.0	http://projects.genivi.org/diagnostic-log-trace/	Copyright © 2011-2015 BMW AG
21	GENIVI IVI Layer Management	0.9.9, 1.2.0	Apache License 2.0	http://projects.genivi.org/ivi-layer-management	Copyright (C) 2012 DENSO CORPORATION and Robert Bosch Car Multimedia Gmbh, Copyright 2010,2011 BMW Car IT GmbH, Copyright 2011 Valeo, Copyright (c) 2012, NVIDIA CORPORATION, Copyright (c) 2014 Codethink Limited, Copyright © 2008 Kristian Høgsberg, Copyright (C) 2012 Bayerische Motorenwerke Aktiengesellschaft, Copyright 2004-2007 The Apache Software Foundation
22	GLib	2.0.0, 2.40.2,	GNU Library General Public	http://library.gnome.org/devel/glib/	2010 Codethink Limited

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					1998 Sebastian Wilhelmi
24	GNU C Library - glibc	2.22, 2.19	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/software/libc/libc.html	2007-2013 Free Software Foundation, Inc.
25	GStreamer	0.10.36	GNU Library General Public License v2 or later	http://gstreamer.freedesktop.org/modules/	Copyright (C) 2007 David Schleef Copyright (C) 1999,2000 Erik Walthinsen Copyright (C) 1995-1997 Peter Mattis, Spencer Kimball and Josh MacDonald Copyright (C) 2009 Axis Communications Copyright (C) 2004 Wim Taymans Copyright (C) 2010 Thiago Santos Copyright (C) 2007 Tim-Philipp Müller Copyright (C) 2009-2010 Edward Hervey
26	HarfBuzz	0.9.18, 1.0.2	MIT License	http://freedesktop.org/wiki/Software/HarfBuzz	2007 Chris Wilson ,2009,2010 Red Hat, Inc. 2011,2012 Google, Inc
27	ICU - International	55.1, 4.6.1	Unicode License for Data Files and Software	http://www-306.ibm.com/software/globalization/icu/index.j	Copyright (C) 2009-2012, International

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28	International Components for Unicode - ICU4C	4.6.1	Unicode License for Data Files and Software	http://sourceforge.net/projects/icu/	1991-2011 Unicode
29	JSON-C	0.12.0, 0.12	MIT License	http://oss.metaparadigm.com/json-c/	Copyright (c) 2004, 2005 Metaparadigm Pte. Ltd. Michael Clark Copyright (c) 2009 Hewlett-Packard Development Company, L.P
30	jsoncpp	1.7.7	MIT License	http://sourceforge.net/projects/jsoncpp/	2007-2010 Baptiste Lepilleur,
31	Khronos Group - OpenGL ES	3.0	MIT License	http://www.khronos.org/opengles/	Copyright (c) 2013 The Khronos Group Inc Copyright 2012 - 2016 Vivante Corporation, Santa Clara, California Copyright (c) 2013 The Khronos Group Inc;

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33	libblkid	2.26.0	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>
34	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>
35	libcrypt	1.5.3, 1.6.3	GNU Lesser General Public License v2.1 or	http://www.gnupg.org	Copyright (C) 1998- 2012 Free Software

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36	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
37	libjpeg	9a,8b,8d ,9	Independent JPEG Group License	http://www.ijg.org/	Copyright (C) 1991-1998, Thomas G. Lane
38	libmtp	1.1.6, 1.1.5	GNU Library General Public License v2 or later	http://sourceforge.net/projects/libmtp/	Copyright (C) 2005-2012 Linus Walleij <triad@df.lth.se> Copyright (C) 2005-2008 Richard A. Low <richard@wentn et.com> Copyright (C) 2007 Ted Bullock <tbullock@canad a.com> Copyright (C) 2008 Florent Mertens <flomertens@gm ail.com>
39	libnl - Netlink Library	3.2.25, 3.2.22	GNU Lesser General Public License v2.1 or later	http://www.infradead.org/~tgr/libnl/	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
40	libsigt++	2.2.11, 2.0.0	GNU Lesser General Public License v2.1 or later	http://libsigt.sourceforge.net/	2002, The libsigt++ Development Team
41	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or	http://www.mega-nerd.com/libsndfile/	Copyright (C) 1999-2011 Erik de Castro Lopo

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42	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master	Copyright (C) 2008-2013 J.Rios <anonbeat@gmail.com>, 2013 Jörn Magens
43	LIBUNIBREAK	2.1	zlib License	http://vimgadgets.sourceforge.net/libunibreak/	Copyright (C) 2008-2011 Wu Yongwei Copyright (C) 2012 Tom Hacoen
44	Libunwind	1.1	MIT License	http://savannah.nongnu.org/projects/libunwind/	Copyright (C) 2008 CodeSourcery Copyright (C) 2001-2004 Hewlett-Packard Company, L.P. Contributed by David Mosberger
45	libusb	1.0, 0.1.5, 1.0.19	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
46	libxml2	2.9.2, 2.9.8	MIT License	http://xmlsoft.org/	2000,2012 Bjorn Reese and Daniel Veillard

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48	Lua - Post 4.x	5.2.3	Lua 5.0 License	http://www.lua.org/	Copyright: 1994-2016 Lua.org, PUC-Rio
49	mDNSResponder	544	Apache License 2.0	http://developer.apple.com/opensource/	2003-2013 Apple Computer, Inc. All rights reserved
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51	OpenSSL	1.0.2n	OpenSSL Combined License	http://www.openssl.org/	Copyright (C) 1995-1998 Eric Young All rights reserved
52	PNG reference library: libpng - libpng-stable	1.6.8, 1.6.32, 1.4.5	libpng License	http://sourceforge.net/projects/libpng/	(Version 0.88 Copyright © 1995, 1996 Guy Eric Schalnat, Group 42, Inc.) * Copyright © 1998-2013 Glenn

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53	protobuf	2.3.0	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/protobuf/	Copyright:Copyri ght (C) 2008 Google Inc.All Rights Reserved,Copyrig ht (C) 2014 Google Inc.All Rights Reserved.;
54	Python	2.7.9	Python License 2.0	http://www.python.org/	Copyright: Copyright (c) 1999-2008 by Fredrik Lundh, Copyright (C) 1999-2001 Gregory P. Ward, Copyright (C) 2002, 2003 Python Software Foundation, Copyright (C) 2001-2014 Vinay Sajip, (c) Copyright CNRI, Copyright 1992- 1994, David Gottner, Copyright (c) 1995-2001 Corporation for National Research Initiatives, Copyright (c) 2000 BeOpen.com., Copyright (c) 1991-1995

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55	qt5	5.6.1	LGPL 2.1 or later with Qt Company LGPL Exception version 1.1	http://github.com/qtproject/qt5/	© 2015 The Qt Company Ltd.
56	RBTree algorithm	NA	Public Domain	http://eternallyconfuzzled.com/tuts/datastructures/js/tut_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
57	SQLite	3.8.7.4,3 .13.0, 3.26.0, 3.11.1	Public Domain	http://www.sqlite.org/	Copyright (C) 2011-2014, Yann Collet., Copyright (c) 2004-2008 Hipp, Wyrick & Company, Inc
58	systemd	225	GNU Lesser General Public License v2.1 or later	http://freedesktop.org/wiki/Software/systemd/	2013 Lennart Poettering
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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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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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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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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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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)


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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and

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

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.


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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.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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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3.1.35 Android - platform - frameworks – base - 4.0.1_r1

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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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3.2.3.3 RealVNC modifications to OpenSSL

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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glennrp at
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- 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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3.2.13 GCC libstdc++

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3.2.14 keysymdef

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3.2.17 JThread

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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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3.2.19.3 list.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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Project: miniupnp

Project web page: <http://miniupnp.free.fre/> or <http://miniupnp.tuxfamily.org/>

Author: Thomas Bernard

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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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3.2.28.1 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.