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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	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	http://github	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	http://boost .org/	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	http://cairo graphics.org /introductio n	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	Collabora	Unspec ified	Mozilla Public License 2.0	https://ww w.collabora office.com/	Copyright © 2016 Collabora Ltd
11.	ConnMan	1.35	GNU General Public License v2.0 only	http://conn man.net/	2007-2012 Intel Corporation. All rights reserved.
12.	curl	7.59.0, 7.52.1	curl License	https://curl. haxx.se/	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al
13.	CVTUTF	1.0	Unicode License	http://www .unicode.or g/Public/PR OGRAMS/C VTUTF	2001 Unicode, Inc. http://unicode.org/
14.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	http://www .freedeskto p.org/wiki/I ntroduction ToDBus	2003 CodeFactory AB
15.	Developers Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	http://sourc eforge.net/ projects/op enil/	2000-2009 by Denton Woods, 2001 David Galeano
16.	ECNR	NA	Academic Free		2010 © MontaVista

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17.	Filesystem in Userspace	2.9.4	GNU Library General Public License v2 or later	http://sourceforge.net/projects/fuse/	2001-2007 Miklos Szeredi
18.	Fontconfig	2.11.94	MIT License	http://freedesktop.org/wiki/Software/fontconfig	2001 Keith Packard
19.	Free Image	3.15.4, 3.17.0	FreeImage Public License v1.0	http://freeimage.sourceforge.net/	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	http://gcc.gnu.org/	2004-2013 Free Software Foundation, Inc
21.	GDK-Pixbuf	2.0, 2.30.8	GNU Library General Public License v2 or later	http://www.gnome.org/	2003 The Free Software Foundation
22.	GENIVI Audio Manager	3.2,1.1, 4.2	Mozilla Public License 2.0	https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager	2012 Continental Automotive Systems, Inc, 2012, BMW AG
23.	GENIVI Diagnostic Log and Trace Daemon	2.16.0	Mozilla Public License 2.0	http://projects.genivi.org/diagnostic-log-trace/	2011-2015, BMW AG
24.	GENIVI IVI Layer Management	0.9.9, 1.2.0	Apache License 2.0	https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management	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	http://library.gnome.org/devel/glib/	2010 Codethink Limited
26.	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.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	http://gstreamer.freedesktop.org/modules/	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	http://freedesktop.org/wiki/Software/HarfBuzz	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	http://www-306.ibm.com/software/globalization/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
30.	IPTables	1.4.21	GNU General Public License v2.0 or later	http://www.netfilter.org/	Copyright (C) 2016 Robert Bosch Car Multimedia GmbH
31.	JSON-C	0.12.0	MIT License	http://oss.metaparadigm.com/json-c/	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	http://sourceforge.net/projects/jsoncpp/	2007-2010 Baptiste Lepilleur,
33.	Khronos Group - OpenGL ES	3.0, 2.0	MIT License	http://www.khronos.org/opengles/	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	https://www.kernel.org/pub/linux/utils/kernel/kmod/	2011-2013 ProFUSION embedded systems
35.	Lib Cap	2.24	BSD 3-clause "New" or "Revised" License	http://sites.google.com/site/fullycapable/	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	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>
37.	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>
38.	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

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39.	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
40.	libjpeg	9a,8b,8d,9	Independent JPEG Group License	http://www.ijg.org/	Copyright (C) 1994-1997, Thomas G. Lane
41.	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@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	http://www.infradead.org/~tgr/libnl/	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
43.	libsigs++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsigs.c.sourceforge.net/	2002, The libsigs++ Development Team
44.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	http://www.mega-nerd.com/libsndfile/	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	https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master	2013 Jörn Magens

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46.	LIBUNIBREAK	2.1	zlib License	http://vimadgets.sourceforge.net/libunibreak/	2008-2011 Wu Yongwei, 2012 Tom Hacohen <tom@stosb.com>
47.	Libunwind	Unspecified, 1.1	MIT License	http://savannah.nongnu.org/projects/libunwind/	(C) 2008 CodeSourcery Copyright (C) 2002-2004 Hewlett-Packard Co
48.	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
49.	libxml2	2.9.2, 2.9.8	MIT License	http://xmlsoft.org/	2000, 2012 Bjorn Reese and Daniel Veillard
50.	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@computer.org> Copyright © 2001-2002 Silicon Graphics, Inc. All Rights Reserved. Copyright © 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
51.	litehtml	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/litehtml/	Copyright (C) 1994-1997, Thomas G. Lane.
52.	Lua - Post 4.x	5.2.3, 5.3.3	Lua 5.0 License	http://www.lua.org/	1994-2016 Lua.org, PUC-Rio

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53.	lxc	Unspecified	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008
54.	mDNSResponder	Unspecified, 625.41.2	Apache License 2.0	http://github.com/Sha0/mDNSResponder/	2003-2013 Apple Computer, Inc. All rights reserved
55.	mosquitto: an mqtt message broker	1.3.4	BSD 3-clause "New" or "Revised" License	https://laan.chpad.net/mosquitto	Copyright (c) 2010-2014 Roger Light <roger@atchoo.org>All rights reserved
56.	mosquitto: an mqtt message broker	1.4.13	Eclipse Public License 1.0	https://laan.chpad.net/mosquitto	Copyright © 2010-2014 Roger Light <roger@atchoo.org> All rights reserved
57.	NeuQuant - Neural Image Quantization	Unspecified	NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~d Dekker/NEUQUANT.HT ML	1994 Anthony Dekker
58.	OpenSSL	NA, 1.0.2n, 1.0.2q	OpenSSL Combined License	http://www.openssl.org/	Copyright (C) 1995-1998 Eric Young All rights reserved
59.	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
60.	protobuf	2.3.0, 3.0.0	BSD 3-clause "New" or "Revised" License	http://github.com/localshred/protobuf/	Copyright 2008 Google Inc

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61.	QRCode	0.0.1	MIT License	https://github.com/ricmoo/QRCode	Copyright © 2017 Richard Moore
62.	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.
63.	RBTree algorithm	Unspecified	Public Domain	http://eternallyconfuzzled.com/tuts/datastructures/jsw_tut_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
64.	RealVNC	Unspecified	VNC END USER LICENSE AGREEMENT	http://www.realvnc.com/	2002-2018 RealVNC Ltd. All Rights Reserved
65.	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
66.	systemd	Unspecified, 225	GNU Lesser General Public License v2.1 or later	http://freedesktop.org/wiki/Software/systemd/	2013 Lennart Poettering
67.	Tadween	1.0.4	MIT License	http://sourceforge.net/projects/tadween/	2009 Mohammad Arabix (mohammadhi at gmail dot com)
68.	TagLib Audio Meta-Data Library	Unspecified	GNU Lesser General Public License v2.1 or later	http://taglib.github.com/	2008 by Scott Wheeler
69.	Templatized C++ Command	1.2.1	MIT License	http://sourceforge.net/	Copyright © 2003, Michael E. Smoot . All

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2006-Jan-27

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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.

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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.

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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.)

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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 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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3.1.35 Android - platform - frameworks – base - 4.0.1_r1


Home Page: <http://developer.android.com/index.html>

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3.1.36 Android - platform - prebuilts – sdk - 4.4_r1

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3.1.37 Android SDK Support Libraries – 19,23.1.1

Home Page: <https://developer.android.com/tools/support-library/index.html>

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3.1.38 Android SDK Support Libraries

Drools:: Scorecards - 5.5.0.Final

Home Page : <http://mirrors.ibiblio.org/maven2/org/drools/drools-scorecards/>

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3.1.39 Mongolduu - master-20121109

Home Page: <http://github.com/tugstugi/mongolduu/>

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3.1.40 Stan-for-Android - 0.1.0

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

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3.1.41 doT - 1.0.1


Home Page: <http://github.com/olado/doT/>

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3.1.42 JQuery: 2.0.3

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3.1.43 jquery_mobile_rails - 1.3.2

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3.1.44 SafeSlinger-Android - 1.8.3-messenger

Home Page: <http://github.com/SafeSlingerProject/SafeSlinger-Android/>

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3.1.46 CRC32

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3.1.47 SHA-1 in C

Home Page: <http://www.mirrors.wiretapped.net/security/cryptography/ hashes/sha1>

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3.1.48 SyncML C Toolkit - 4.0.3


Home Page: <http://sourceforge.net/projects/syncml-ctoolkit/>

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3.1.49 CMarkup - 11.05

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3.1.55 Android - platform - bootable – recovery - 2.3_r1

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3.1.57 File system in Userspace - 2.8.7

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3.1.58 lz4 Compression algorithm - r111

Home Page: <http://code.google.com/p/lz4/>

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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

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

Home Page: <http://www.gnu.org/software/libc/libc.html>

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

Home Page: <http://code.google.com/p/test-sqlite-blob/>

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3.1.70 7 Zip - LZMA SDK - 9.2

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3.1.71 7-Zip - 7-Zip -3.11

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3.1.73 XZ Utils -5.0.7

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3.1.75 Android - platform – dalvik - 2.1_r1

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- The hard-coding of config options in opensslconf.h.
- The addition of compile-time

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-
- 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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```
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3.2.10 libzip

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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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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.
- On Windows, in mkstemp.c, pid_t and S_ISDIR have been defined, and io.h and process.h included.

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2006-Jan-25.2.

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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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3.2.17 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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3.2.19.4 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 web page: <http://miniupnp.free.fre/> or <http://miniupnp.tuxfamily.org/>

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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.

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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

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.