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Table of Contents

1 List of used Open Source Components. 6
2 Appendix - License Text 83
2.1 Academic Free License v2.1 83
2.2 Apache License 1.1 86
2.3 Apache License 2.0 88
2.4 Apple Public Source License 1.1 91
2.5 Artistic License 1.0 99
2.6 BSD 2-clause "Simplified" License 102
2.7 BSD 3-clause "New" or "Revised" License 103
2.8 BSD-4-Clause (University of California-Specific) 104
2.9 BSD-like license (libktx) 105
2.10 Boost Software License 1.0 106
2.11 Bzip2 License 107
2.12 Eclipse Public License 1.0 108
2.13 Expat License 112
2.14 Fine Free File Command License 113
2.15 FreeImage Public License v1.0 114
2.16 Freetype Project License 122
2.17 GCC Runtime Library Exception 3.1 to GPL 3.0 125
2.18 GNU General Public License v2.0 only 134
2.19 GNU General Public License v2.0 or later 140
2.20 GNU General Public License v3.0 or later with Bison exception 2.2 147
2.21 GNU Lesser General Public License v2.1 only 156
2.22 GNU Lesser General Public License v2.1 or later 166
2.23 GNU Library General Public License v2 or later 176
2.24 ICU License 186
2.25 ISC License 187
2.26 Independent JPEG Group License 188
2.27 Info-ZIP License 190
2.28 Info-ZIP Updated License 191
2.29 LGPL 2.1 or later with Qt Company LGPL Exception version 1.1 192
2.30 License for Delaunay-Triangulation 193
2.31 Lua 5.0 License 194
2.32 MIT License 195
2.33 Microsoft Windows Server 2003 SP1 SDK License for non-redistributables 196
2.34 Mozilla Public License 2.0 200
2.35 NeuQuant Neural-Net Quantization Algorithm License 205
2.36 OSF - X Consortium License 206
2.37 OSGEARTH SOFTWARE LICENSE 207
2.38 OpenSSL Combined License 208
2.39 OpenSceneGraph Public License 210
2.40 OpenSceneGraph Public License, Version 0.0 211
2.41 PCRE 5 License 212
2.42 Public Domain 213
2.43 Python License 2.0 214
2.44 Stanford SRP Authentication Project License 215
2.45 TCP Wrappers License 216
2.46 Unicode License 217
2.47 Unicode License for Data Files and Software 218
2.48 Utm License 219

2.49 VNC END USER LICENSE AGREEMENT 220
2.50 copyleft-next 0.3.0 224
2.51 curl License 231
2.52 libpng License 232
2.53 libtheora License 234
2.54 libtiff License 235
2.55 stunnel GPL 2.0 with Exception License 236
2.56 zlib License 237
3. Other Open Source Dependencies: 238
3.1.1 X Windows - XFree86 1.9 238
3.1.2. Zlib - 1.1.4 238
3.1.3.OpenSSL - 0.9.8x 238
3.1.4.SHA 238
3.1.5.AES 238
3.1.6.EAX 238
3.1.7.Expat - 2.0.1 239
3.1.8.Libpng - 1.2.40 239
3.1.9.Libzip - 0.9 239
3.1.10.JPEG - 6b 239
3.1.11 Libjpegturbo - 1.2.1 239
3.1.12 GCC libstdc++ - 4.1.2 239
3.1.13 Keysymdef 240
3.1.14 Endian 240
3.1.15 JRTPLIB - 3.9.1 240
3.1.16 JThread - 1.3.1 240
3.1.17 Portaudio - 1.9 240
3.1.18 Libxml2 - 2.9.1 240
3.1.19 Miniupnpc - 1.5 240
3.1.21 LibTomCrypt - 1.16 241
3.1.22 LibTomMath - 0.39 241
3.1.23 Base64.java - 2.3.5.2. 241
3.1.24 Internal Android OS APIs 241
3.1.25 ExtractMpeg FramesTest. java 241
3.1.26 Libupnp (pupnp) - 1.6.19 241
3.1.27 Libxml2 - 2.9.1 241
3.1.28 OpenSSL - 0.9.8x 242
3.1.29 Wpa_supplicant - 2.3 242
3.1.30 Pythonpsutil_2.1.3.bb 242
3.1.31 Android SupportLibraries - 19.0.0 242
3.1.33 axTLS - 1.1.8 242
3.1.34 Action - 0.1.1 242
3.1.35 Android - platform - frameworks – base - 4.0.1_r1 242
3.1.36 Android - platform - prebuilts – sdk - 4.4_r1 242
3.1.37 Android SDK Support Libraries – 19,23.1.1 243
3.1.38 Android SDK Support Libraries 243
3.1.39 Mongolduu - master-20121109 243
3.1.40 Stan-for-Android - 0.1.0 243
3.1.41 doT - 1.0.1 243
3.1.42 JQuery: 2.0.3 243
3.1.43 jquery_mobile_rails - 1.3.2 244
3.1.44 SafeSlinger-Android - 1.8.3-messenger 244

3.1.45 OpenSSL 244
3.1.46 CRC32 244
3.1.47 SHA-1 in C 244
3.1.48 SyncML C Toolkit - 4.0.3 244
3.1.49 CMarkup - 11.05 244
3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition 244
3.1.51 LZO real-time data compression library - 2.04 245
3.1.52 UCL Data Compression Library - 1.03 245
3.1.53 Android - platform - bootable – recovery - 4.0.1_r1 245
3.1.54 Android - platform - bootable – recovery - 5.0.0_r1 245
3.1.55 Android - platform - bootable – recovery - 2.3_r1 245
3.1.56 Android - platform - system – core - 4.2 245
3.1.57 File system in Userspace - 2.8.7 245
3.1.58 lz4 Compression algorithm - r111 245
3.1.59 Android -platform - system - core/libmincrypt 246
3.1.60 lucy search engine – lucy - 0.6.0 246
3.1.61 NetBSD - 1.4 246
3.1.62 Open BSD - 4.5 246
3.1.63 Bsdiff - 4.3 246
3.1.64 GNU C Library – glibc - 2.2.4 246
3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0 246
3.1.66 squashfs - a compressed fs for Linux - squashfs4.3 246
3.1.67 File system in User space - 2.9.3 246
3.1.68 Libdivsufsort - 2.0.0 247
3.1.69 Test-SQLite-blob - trunk-20120916-svn 247
3.1.70 7 Zip - LZMA SDK - 9.2 247
3.1.71 7-Zip - 7-Zip -3.11 247
3.1.72 CRC32 MIT.edu 247
3.1.73 XZ Utils -5.0.7 247
3.1.74 Zlib - 1.2.3 247
3.1.75 Android - platform – dalvik - 2.1_r1 247
3.1.76 Wapiti (Public Domain) 247
3.2 Licensing, copyright, acknowledgements, and modifications 248
3.2.1 X Windows 249
3.2.1.1 The Open Group 249
3.2.1.2 Digital Equipment Corporation 249
3.2.1.3 Digital Equipment Corporation - Panoramix components 250
3.2.2 Zlib 250
3.2.3 OpenSSL 251
3.2.3.1 The OpenSSL Project 251
3.2.3.2 Eric Young 253
3.2.3.3 RealVNC modifications to OpenSSL 254
3.2.4 SHA 254
3.2.4.1 Dr Brian Gladman 254
3.2.4.2 Cameron Rich 255
3.2.5 AES 256
3.2.6 EAX 257
3.2.7 libjpeg-turbo 257
3.2.8 expat 258
3.2.9 libpng 259

3.2.10 libzip 261
3.2.10.2 Free Software Foundation 262
3.2.10.4 RealVNC modifications to libzip 263
3.2.11 FreeType 264
3.2.11.1 Definitions 264
3.2.11.2 No Warranty 264
3.2.11.3 Redistribution 264
3.2.11.4 Advertising 265
3.2.12 LodePNG 265
3.2.13 GCC libstdc++ 266
3.2.14 keysymdef 266
3.2.15 Endian 267
3.2.16 JRTPLIB 267
3.2.17 JThread 268
3.2.18 portaudio 268
3.2.19 libxml2 269
3.2.19.1 License 269
3.2.19.2 hash.c 270
3.2.19.3 list.c 270
3.2.19.4 trio.c, trio.h 270
3.2.19.5 RealVNC modifications to libxml2 271
3.2.20.1 Copyright notice 271
3.2.20.2 License 271
3.2.21 LibTomCrypt 272
3.2.22 LibTomMath 272
3.2.23 Base64.java 273
3.2.24 Internal Android OS APIs 273
3.2.25 ExtractMpegFramesTest.java 273
3.2.26 libupnp (pupnp) 274
3.2.27 libudev 275
3.2.28 WPA Supplicant 276
3.2.28.2 ath9k_faf1dc64_backport.patch 277
3.2.28.3 python-psutil_2.1.3.bb 277
3.2.29 Android Support Libraries 278
3.2.30 VNC Wi-Fi Display i.MX6 sample decoder 278
3.2.31 mxcfb.h 278
3.2.32 axTLS 279

1 List of used Open Source Components.

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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://githu	Copyright © 2004, 2006

			"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	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://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	NA	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	http://sourceforge.net/projects/fus	2001-2007 Miklos Szeredi

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17.	Fontconfig	2.11.94	MIT License	http://freedesktop.org/wiki/Software/fontconfig	2001 Keith Packard
18.	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
19.	GCC	5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	http://gcc.gnu.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.projects.genivi.org/wiki/display/PROJ/Audio+Manager	2012 Continental Automotive Systems, Inc,2012, BMW AG
22.	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
23.	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
24.	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

25.	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.
26.	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>
27.	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
28.	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
29.	IPTables	1.4.21	GNU General Public License v2.0 or later	http://www.netfilter.org/	Copyright (C) 2016 Robert Bosch Car Multimedia GmbH
30.	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
31.	jsoncpp	1.7.7	MIT License	http://sourceforge.net/projects/jsoncpp/	2007-2010 Baptiste Lepilleur,

32.	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]
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/fullycapable/	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>
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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,	Independent JPEG	http://www	Copyright (C) 1994-

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42.	libsigc++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsigc.sourceforge.net/	2002, The libsigc++ Development Team
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44.	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master	2013 Jörn Magens
45.	LIBUNIBREAK	2.1	zlib License	http://vimgadgets.sourceforge.net/libunibreak/	2008-2011 Wu Yongwei,2012 Tom Hacohen <tom@stosb.com>

46.	Libunwind	NA,1.1	MIT License	http://savannah.nongnu.org/projects/libunwind/	(C) 2008 CodeSourcery Copyright (C) 2002-2004 Hewlett-Packard Co
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@computer.org> Copyright © 2001-2002 Silicon Graphics, Inc. All Rights Reserved. Copyright © 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
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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	NA	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008

53.	mDNSResponder	NA, 625.41.2	Apache License 2.0	http://github.com/Sha0/mDNSResponder/	2003-2013 Apple Computer, Inc. All rights reserved
54.	mosquitto: an mqtt message broker	1.3.4	BSD 3-clause "New" or "Revised" License	https://launchpad.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://launchpad.net/mosquitto	Copyright © 2010-2014 Roger Light <roger@atchoo.org> All rights reserved
56.	NeuQuant - Neural Image Quantization		NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~dekker/NEUQUANT.HTML	1994 Anthony Dekker
57.	OpenSSL	NA, 1.0.2n	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/ricmoo/QRCod	Copyright © 2017 Richard Moore

				e	
61.	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.
62.	RBTree algorithm	NA	Public Domain	http://eternallyconfuzzled.com/tuts/datastructures/jsw_tut_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
63.	RealVNC	NA	VNC END USER LICENSE AGREEMENT	http://www.realvnc.com/	2002-2018 RealVNC Ltd. All Rights Reserved
64.	SQLite	3.8.7.4, 3.13.0, 3.21.0, 3.26.0	Public Domain	http://www.sqlite.org/	No Copyright
65.	systemd	NA, 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 d0t com)
67.	TagLib Audio Meta-Data Library	NA	GNU Lesser General Public License v2.1 or later	http://taglib.github.com/	2008 by Scott Wheeler
68.	Templatized C++ Command Line Parser	1.2.1	MIT License	http://sourceforge.net/projects/tclap/	Copyright © 2003, Michael E. Smoot . All rights reverved.Copyright © 2003, Michael E. Smoot . Copyright © 2004, Michael E. Smoot, Daniel Aarno All rights reverved

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70.	TinyXML	2.6.2, 3.0.0	zlib License	http://sourceforge.net/projects/tinyxml/	2000-2006 Lee Thomason
71.	Totem Playlist Parser	3.4.5	GNU Library General Public License v2 or later	https://developer.gnome.org/totem-pl-parser/stable/index.html	2009, Nokia, 2002, 2003, 2004, 2005, 2006 Bastien Nocera,Copyright (C) 2003 Colin Walters <walters@verbum.org>
72.	util-unix-ng	2.26.2	BSD 3-clause "New" or "Revised" License	https://www.kernel.org/pub/linux/utils/util-linux/	1996, 1997, 1998 Theodore Ts'o
73.	Wayland	NA, 1.14.0	MIT License	http://cgit.freedesktop.org/~krh/wayland/	Copyright (C) 2011 Benjamin Franzke Copyright (C) 2010 Intel Corporation Copyright (C) 2012 Collabora, Ltd
74.	wpa_supplicant - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i	2.4, 2.6	BSD 3-clause "New" or "Revised" License	http://hostap.epitest.fi/wpa_supplicant/	Copyright © 2004-2006, Jouni Malinen <j@w1.fi>
75.	yajl	2.1.0	ISC License	http://github.com/lloyd/yajl/	Copyright 2007-2014, Lloyd Hilaiel
76.	zlib	1.2.8, 1.2.5, 1.2.11,	zlib License	http://www.zlib.net/	1995-2013 Jean-loup Gailly and Mark Adler

		1.2.3			
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80.	SELinux reference policies	20060307	GNU General Public License v2.0 or later	http://sourceforge.net/projects/serefpolicy/	Copyright (C)Chris PeBenito <selinux@tresys.com>, Copyright (C) 2005-2006 SELinux Symposium,LLC All rights reserved.
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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 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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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.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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.

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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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.

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

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

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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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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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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3.2.19 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 miniupnpc

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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.

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://libromcrypt.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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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/cgit/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.