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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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11	D-Bus	1.0	Academic Free License v2.1	http://www.freedesktop.org/wiki/IntroductionToDBus	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	FreeImage	3.17.0	FreeImage Public License v1.0	http://sourceforge.net/projects/freeimage/	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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24	GNU C Library - glibc	2.22, 2.19	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/sof tware/libc/libc.html	2007-2013 Free Software Foundation, Inc.
25	GStream er	0.10.36	GNU Library General Public License v2 or later	http://gstreamer.freed esktop.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 ,2009,201 0 Red Hat, Inc. 2011,2012 Google, Inc
27	ICU - Internati onal	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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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	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>
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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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>
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40	libsigc++	2.2.11, 2.0.0	GNU Lesser General Public License v2.1 or later	http://libsigc.sourceforg e.net/	2002, The libsigc++ 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
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46	libxml2	2.9.2, 2.9.8	MIT License	http://xmlsoft.org/	2000,2012 Bjorn Reese and Daniel Veillard

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49	mDNSResponder	544	Apache License 2.0	http://developer.apple.com/opensource/	2003-2013 Apple Computer, Inc. All rights reserved
50	NeuQuant - Neural Image Quantization		NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~dekker/NEUQUANT.HTML	1994 Anthony Dekker
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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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://eternallyconfuzzed.com/tuts/datastructures/jsw_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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David Turner, Robert Wilhelm, and Werner Lemberg

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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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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version 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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small

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

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3.1.67 File system in User space - 2.9.3

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3.1.68 Libdivsufsort - 2.0.0

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

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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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3.1.74 Zlib - 1.2.3


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3.1.75 Android - platform – dalvik - 2.1_r1

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3.2.2 Zlib

Acknowledgements:

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

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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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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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3.2.17 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.