
 <b>BOSCH</b>	<b>OSS Disclosure Document</b>	<b>DATE</b>
<b>CM_CI1</b>	<b>CM_AI_PRJ_RN_AIVI_Scope2.1</b>	<b>21<sup>st</sup> July 2020</b>


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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	<a href="http://code.google.com/p/fastlz/">http://code.google.com/p/fastlz/</a>	Copyright (C) 2005,2006,2007 Ariya Hidayat (ariya@kde.org)
2.	RFC1321-based (RSA-free) MD5 library	1.6	zlib License	<a href="http://sourceforge.net/projects/libmd5-rfc/">http://sourceforge.net/projects/libmd5-rfc/</a>	Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved
3.	sqlite3	3.7.5	Public Domain	<a href="http://rubygems.org/gems/sqlite3">http://rubygems.org/gems/sqlite3</a>	
4.	AES - Advanced Encryption Standard	1.0	zlib License	<a href="http://www.lomont.org/Software/Misc/AES/AES.php">http://www.lomont.org/Software/Misc/AES/AES.php</a>	2000-2005 Chris Lomont
5.	Alsa Libraries	1.0.29	GNU Lesser General Public License v2.1 or later	<a href="https://www.alsa-project.org/wiki/ALSA_Library_API">https://www.alsa-project.org/wiki/ALSA_Library_API</a>	2010 Red Hat Inc.
6.	Android - platform - bootable - recovery	NA	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	2007 The Android Open Source Project
7.	asn1c	0.9.27	BSD 2-clause	<a href="http://github">http://github</a>	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	Boost Software License 1.0	<a href="http://boost.org/">http://boost .org/</a>	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	<a href="http://cairographics.org/introduction">http://cairo graphics.org /introductio n</a>	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	ConnMan	1.35	GNU General Public License v2.0 only	<a href="http://connman.net/">http://conn man.net/</a>	2007-2012 Intel Corporation. All rights reserved.
11.	curl	7.59.0, 7.52.1	curl License	<a href="https://curl.haxx.se/">https://curl. haxx.se/</a>	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al
12.	CVTUTF	NA	Unicode License	<a href="http://www.unicode.org/Public/PROGRAMS/CVTUTF">http://www .unicode.or g/Public/PR OGRAMS/C VTUTF</a>	2001 Unicode, Inc. <a href="http://unicode.org/">http://unicode.org/</a>
13.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	<a href="http://www.freedesktop.org/wiki/IntroductionToDBus">http://www .freedesкто p.org/wiki/I ntroduction ToDBus</a>	2003 CodeFactory AB
14.	Developers Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	<a href="http://sourceforge.net/projects/openil/">http://sourc eforge.net/ projects/op enil/</a>	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	<a href="http://sourceforge.net/projects/fuse/">http://sourc eforge.net/ projects/fus</a>	2001-2007 Miklos Szeredi


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			License v2 or later	e/	
17.	Fontconfig	2.11.94	MIT License	<a href="http://freedesktop.org/wiki/Software/fontconfig">http://freedesktop.org/wiki/Software/fontconfig</a>	2001 Keith Packard
18.	Free Image	3.15.4, 3.17.0	FreeImage Public License v1.0	<a href="http://freeimage.sourceforge.net/">http://freeimage.sourceforge.net/</a>	1991-1998, Thomas G. Lane., 1994 Anthony Dekker
19.	GCC	5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	<a href="http://gcc.gnu.org/">http://gcc.gnu.org/</a>	2004-2013 Free Software Foundation, Inc
20.	GDK-Pixbuf	2.0, 2.30.8	GNU Library General Public License v2 or later	<a href="http://www.gnome.org/">http://www.gnome.org/</a>	2003 The Free Software Foundation
21.	GENIVI Audio Manager	3.2,1.1, 4.2	Mozilla Public License 2.0	<a href="https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager">https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager</a>	2012 Continental Automotive Systems, Inc, 2012, BMW AG
22.	GENIVI Diagnostic Log and Trace Daemon	2.16.0	Mozilla Public License 2.0	<a href="http://projects.genivi.org/diagnostic-log-trace/">http://projects.genivi.org/diagnostic-log-trace/</a>	2011-2015, BMW AG
23.	GENIVI IVI Layer Management	0.9.9, 1.2.0	Apache License 2.0	<a href="https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management">https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management</a>	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	<a href="http://library.gnome.org/devel/glib/">http://library.gnome.org/devel/glib/</a>	2010 Codethink Limited




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25.	GNU C Library - glibc	2.22, 2.19	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnu.org/software/libc/libc.html">http://www.gnu.org/software/libc/libc.html</a>	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	<a href="http://gstreamer.freedesktop.org/modules/">http://gstreamer.freedesktop.org/modules/</a>	1999, 2000 Erik Walthinsen <omega@cse.ogi.edu>  2000 Wim Taymans <wtay@chello.be>
27.	HarfBuzz	1.3.1, 1.0.2, 0.9.18	MIT License	<a href="http://freedesktop.org/wiki/Software/HarfBuzz">http://freedesktop.org/wiki/Software/HarfBuzz</a>	2007 Chris Wilson, 2009, 2010 Red Hat, Inc. 2011, 2012 Google, Inc
28.	ICU - International Components for Unicode	55.1, 4.6.1	ICU License	<a href="http://www-306.ibm.com/software/globalization/icu/index.jsp">http://www-306.ibm.com/software/globalization/icu/index.jsp</a>	Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved. Copyright 2007 Google Inc. All Rights Reserved, 1991-2011 Unicode
29.	IPTables	1.4.21	GNU General Public License v2.0 or later	<a href="http://www.netfilter.org/">http://www.netfilter.org/</a>	Copyright (C) 2016 Robert Bosch Car Multimedia GmbH
30.	JSON-C	0.12.0	MIT License	<a href="http://oss.metaparadigm.com/json-c/">http://oss.metaparadigm.com/json-c/</a>	Copyright (c) 2004, 2005 Metaparadigm Pte. Ltd.  Michael Clark <michael@metaparadigm.com>  Copyright (c) 2009 Hewlett-Packard Development Company, L.P
31.	jsoncpp	1.7.7	MIT License	<a href="http://sourceforge.net/projects/jsoncpp/">http://sourceforge.net/projects/jsoncpp/</a>	2007-2010 Baptiste Lepilleur,

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32.	Khronos Group - OpenGL ES	3.0, 2.0	MIT License	<a href="http://www.khronos.org/opengles/">http://www.khronos.org/opengles/</a>	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	<a href="https://www.kernel.org/pub/linux/utils/kernel/kmod/">https://www.kernel.org/pub/linux/utils/kernel/kmod/</a>	2011-2013 ProFUSION embedded systems
34.	Lib Cap	2.24	BSD 3-clause "New" or "Revised" License	<a href="http://sites.google.com/site/fullycapable/">http://sites.google.com/site/fullycapable/</a>	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	<a href="http://linux.die.net/man/3/libblkid">http://linux.die.net/man/3/libblkid</a>	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	<a href="http://dri.freedesktop.org/wiki/">http://dri.freedesktop.org/wiki/</a>	2013-2014 Mentor Graphics 1999 Precision Insight, Inc., Cedar Park, Texas. 2000 VA Linux Systems, Inc., Sunnyvale, California. All rights reserved. 2007 Dave Airlie <airlied@linux.ie>
37.	libgcrypt	1.5.3, 1.6.3	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnupg.org">http://www.gnupg.org</a>	Copyright (C) 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2012, 2013 g10 Code GmbH
38.	Libgpg-error Lib	1.12, 1.19	GNU Lesser General Public License v2.1 or later	<a href="http://www.gnupg.org/">http://www.gnupg.org/</a>	Copyright (C) 2003, 2004, 2010, 2013 g10 Code GmbH
39.	libjpeg	9a,8b,	Independent JPEG	<a href="http://www">http://www</a>	Copyright (C) 1994-

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		8d,9	Group License	.ijg.org/	1997, Thomas G. Lane
40.	libmtp	1.1.6, 1.1.5	GNU Library General Public License v2 or later	<a href="http://sourceforge.net/projects/libmtp/">http://sourceforge.net/projects/libmtp/</a>	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>
41.	libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	<a href="http://www.infradead.org/~tgr/libnl/">http://www.infradead.org/~tgr/libnl/</a>	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
42.	libsigt++	2.2.11	GNU Lesser General Public License v2.1 or later	<a href="http://libsigt++.sourceforge.net/">http://libsigt++.sourceforge.net/</a>	2002, The libsigt++ Development Team
43.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	<a href="http://www.mega-nerd.com/libsndfile/">http://www.mega-nerd.com/libsndfile/</a>	Copyright (C) 1999- 2011 Erik de Castro Lopo <erikd@mega-nerd.com>
44.	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	<a href="https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master">https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master</a>	2013 Jörn Magens
45.	LIBUNIBREAK	2.1	zlib License	<a href="http://vimgadgets.sourceforge.net/libunibreak/">http://vimgadgets.sourceforge.net/libunibreak/</a>	2008-2011 Wu Yongwei, 2012 Tom Hacohen <tom@stosb.com>

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46.	Libunwind	NA,1.1	MIT License	<a href="http://savannah.nongnu.org/projects/libunwind/">http://savannah.nongnu.org/projects/libunwind/</a>	(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	<a href="http://libusb.org/">http://libusb.org/</a>	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	<a href="http://xmlsoft.org/">http://xmlsoft.org/</a>	2000,2012 Bjorn Reese and Daniel Veillard
49.	Linux Kernel	3.14.79	GNU General Public License v2.0 only	<a href="http://www.kernel.org/">http://www.kernel.org/</a>	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>
50.	litehtml	NA	BSD 3-clause "New" or "Revised" License	<a href="http://code.google.com/p/litehtml/">http://code.google.com/p/litehtml/</a>	Copyright (C) 1994-1997, Thomas G. Lane.
51.	Lua - Post 4.x	5.2.3,5.3.3	Lua 5.0 License	<a href="http://www.lua.org/">http://www.lua.org/</a>	1994-2016 Lua.org, PUC-Rio
52.	lxc	NA	GNU Lesser General Public License v2.1 or later	<a href="http://github.com/lxc/lxc/">http://github.com/lxc/lxc/</a>	Copyright IBM Corp. 2007, 2008

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53.	mDNSResponder	NA, 625.41.2	Apache License 2.0	<a href="http://github.com/Sha0/mDNSResponder/">http://github.com/Sha0/mDNSResponder/</a>	2003-2013 Apple Computer, Inc. All rights reserved
54.	mosquitto: an mqtt message broker	1.3.4	BSD 3-clause "New" or "Revised" License	<a href="https://launched.net/mosquitto">https://launched.net/mosquitto</a>	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	<a href="https://launched.net/mosquitto">https://launched.net/mosquitto</a>	Copyright © 2010-2014 Roger Light <roger@atchoo.org> All rights reserved
56.	NeuQuant - Neural Image Quantization		NeuQuant Neural-Net Quantization Algorithm License	<a href="http://members.ozemail.com.au/~d Dekker/NEUQUANT.HT ML">http://members.ozemail.com.au/~d Dekker/NEUQUANT.HT ML</a>	1994 Anthony Dekker
57.	OpenSSL	NA, 1.0.2n	OpenSSL Combined License	<a href="http://www.openssl.org/">http://www.openssl.org/</a>	Copyright (C) 1995-1998 Eric Young All rights reserved
58.	PNG reference library: libpng - libpng-stable	1.6.32, 1.6.19	libpng License	<a href="http://sourceforge.net/projects/libpng/">http://sourceforge.net/projects/libpng/</a>	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	<a href="http://github.com/localshred/protobuf/">http://github.com/localshred/protobuf/</a>	Copyright 2008 Google Inc
60.	QRCode	0.0.1	MIT License	<a href="https://github.com/ricmoo/QRCode">https://github.com/ricmoo/QRCode</a>	Copyright © 2017 Richard Moore

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				e	
61.	qt5	5.6.1	LGPL 2.1 or later with Qt Company LGPL Exception version 1.1	<a href="http://github.com/qtproject/qt5/">http://github.com/qtproject/qt5/</a>	© 2015 The Qt Company Ltd.
62.	RBTree algorithm	NA	Public Domain	<a href="http://eternallyconfuzzled.com/tuts/datastructures/jsw_tut_rbtree.aspx">http://eternallyconfuzzled.com/tuts/datastructures/jsw_tut_rbtree.aspx</a>	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
63.	RealVNC	NA	VNC END USER LICENSE AGREEMENT	<a href="http://www.realvnc.com/">http://www.realvnc.com/</a>	2002-2018 RealVNC Ltd. All Rights Reserved
64.	SQLite	3.8.7.4, 3.13.0, 3.21.0, 3.26.0	Public Domain	<a href="http://www.sqlite.org/">http://www.sqlite.org/</a>	No Copyright
65.	systemd	NA, 225	GNU Lesser General Public License v2.1 or later	<a href="http://freedesktop.org/wiki/Software/systemd/">http://freedesktop.org/wiki/Software/systemd/</a>	2013 Lennart Poettering
66.	Tadween	1.0.4	MIT License	<a href="http://sourceforge.net/projects/tadween/">http://sourceforge.net/projects/tadween/</a>	2009 Mohammad Arabix (mohammadhi at gmail dOt com)
67.	TagLib Audio Meta-Data Library	NA	GNU Lesser General Public License v2.1 or later	<a href="http://taglib.github.com/">http://taglib.github.com/</a>	2008 by Scott Wheeler
68.	Templatized C++ Command Line Parser	1.2.1	MIT License	<a href="http://sourceforge.net/projects/tclap/">http://sourceforge.net/projects/tclap/</a>	Copyright © 2003, Michael E. Smoot . All rights reserved. Copyright © 2003, Michael E. Smoot . Copyright © 2004, Michael E. Smoot, Daniel Aarno All rights reserved


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					Confirmed By
69.	The FreeType Project - freetype2	2.4.10, 2.5.3	Freetype Project License	<a href="http://sourceforge.net/projects/freetype/">http://sourceforge.net/projects/freetype/</a>	Copyright 1996-2015 by David Turner, Robert Wilhelm, and Werner Lemberg.
70.	TinyXML	2.6.2, 3.0.0	zlib License	<a href="http://sourceforge.net/projects/tinyxml/">http://sourceforge.net/projects/tinyxml/</a>	2000-2006 Lee Thomason
71.	Totem Playlist Parser	3.4.5	GNU Library General Public License v2 or later	<a href="https://developer.gnome.org/totem-pl-parser/stable/index.html">https://developer.gnome.org/totem-pl-parser/stable/index.html</a>	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	<a href="https://www.kernel.org/pub/linux/utils/util-linux/">https://www.kernel.org/pub/linux/utils/util-linux/</a>	1996, 1997, 1998 Theodore Ts'o
73.	Wayland	NA, 1.14.0	MIT License	<a href="http://cgit.freedesktop.org/~krh/wayland/">http://cgit.freedesktop.org/~krh/wayland/</a>	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	<a href="http://hostap.epitest.fi/wpa_supplicant/">http://hostap.epitest.fi/wpa_supplicant/</a>	Copyright © 2004-2006, Jouni Malinen <j@w1.fi>
75.	yajl	2.1.0	ISC License	<a href="http://github.com/lloyd/yajl/">http://github.com/lloyd/yajl/</a>	Copyright 2007-2014, Lloyd Hilaiel
76.	zlib	1.2.8, 1.2.5, 1.2.11,	zlib License	<a href="http://www.zlib.net/">http://www.zlib.net/</a>	1995-2013 Jean-loup Gailly and Mark Adler


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		1.2.3			
77.	cryptodev-linux	1.8	GNU General Public License v2.0 or later Public Domain	<a href="http://cryptodev-linux.org/">http://cryptodev-linux.org/</a>	Copyright © 2004 Michal Ludvig <mludvig@logix.net.nz>, SuSE Labs, Copyright © 2010 Phil Sutter, Copyright © Michal Ludvig, Copyright (C) Angelos D. Keromytis, Copyright © 2009, 2010, 2011 Nikos Mavrogiannopoulos <nnav@gnutls.org>, Copyright (C) 2011 Free Software Foundation, Inc. Copyright © 2011, 2012 OpenSSL Software Foundation, Inc. Copyright © 2011 Maxim Levitsky.
78.	GCC	3.0	GNU General Public License v2.0 or later	<a href="http://gcc.gnu.org/">http://gcc.gnu.org/</a>	Copyright 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006 Free Software Foundation, Inc. and some other contributors.
79.	Kernel Configuration System	0.1.1	GNU General Public License v2.0 or later	<a href="http://savannah.nongnu.org/projects/kernelconf/">http://savannah.nongnu.org/projects/kernelconf/</a>	Copyright © 2017 Free Software Foundation, Inc.
80.	SELinux reference policies	20060307	GNU General Public License v2.0 or later	<a href="http://sourceforge.net/projects/serfepolicy/">http://sourceforge.net/projects/serfepolicy/</a>	Copyright (C) Chris PeBenito <selinux@tresys.com>, Copyright (C) 2005-2006 SELinux Symposium, LLC All rights reserved.
81.	7-Zip - LZMA SDK	9.20	Public Domain	<a href="http://sourceforge.net/">http://sourceforge.net/</a>	Copyright (C) 1999-2005, 2016 Igor Pavlov.




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82.	Gen.3 Freescale i.MX u-boot	2013.0 1.01	GNU General Public License v2.0 or later	<a href="http://www.denx.de/wiki/U-Boot/WebHome">http://www .denx.de/wi ki/U- Boot/WebH ome</a>	Copyright (C) 2000-2012 Wolfgang Denk, DENX Software Engineering, wd@denx.de. and some more contributors. Copyright (C) 2009 Freescale Semiconductor, Inc.
83.	ACL	2.2.52	GNU Lesser General Public License v2.1 or later	<a href="https://savannah.nongnu.org/projects/acl">https://sava nnah.nongn u.org/projec ts/acl</a>	Copyright (C) 1999,2000,2002,2003,2007 ,2011 Andreas Gruenbacher. Copyright (C) 2001-2002 Silicon Graphics, Inc. All Rights Reserved. Copyright © 2002 Silicon Graphics, Inc. All Rights Reserved. Copyright (C) SuSE Linux AG. Copyright (C) 1999- 2002 Andreas Gruenbacher, <a.gruenbacher@bestbits. at> Copyright (C) 1999- 2000 Andreas Gruenbacher, <a.gruenbacher@bestbits. at>.
84.	Alsa Plugins	1.0.29	GNU Lesser General Public License v2.1 or later	<a href="https://www.alsa-project.org/wiki/ALSA_Library_API">https://ww w.alsa- project.org/ wiki/ALSA_L ibrary_API</a>	Copyright © 2008 by Sjoerd Simons <sjoerd@luon.net>, Copyright © 2006 by Pierre Ossman <ossman@cendio.se>.
85.	Alsa Utils	1.0.29	GNU General Public License v2.0 or later	<a href="https://www.alsa-project.org/wiki/ALSA_Library_API">https://ww w.alsa- project.org/ wiki/ALSA_L</a>	Copyright © by Abramo Bagnara, Copyright © 1999-2000,2008,2010 by Jaroslav Kysela, Copyright (C) 2003 Greg Kroah-

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86.	apitrace	7.1	MIT License	<a href="http://github.com/apitrace/apitrace/">http://github.com/apitrace/apitrace/</a>	Copyright 2009,2010,2013,2014,2015 ,2016 Google Inc. All Rights Reserved, Copyright 2012,2013 Intel Corporation.All Rights Reserved, Copyright 2010-2016 VMware, Inc.All Rights Reserved, Copyright 2011-2014 Jose Fonseca.All Rights Reserved, Copyright 2011 LunarG, Inc.All Rights Reserved, Copyright 2015 Alexander Trukhin, Copyright 2013 Samsung,Contributed by Eugene Velesevich,All Rights Reserved. Copyright 2006 Keith Packard and Carl Worth, Copyright 2011 Zack Rusin, Copyright 2004 IBM Corporation.
87.	APMD-Advanced Power Management	3.2.2	GNU General Public License v2.0 or later	<a href="http://manpages.ubuntu.com/manpages/xenial/man8/ap">http://manpages.ubuntu.com/manpages/xenial/man8/ap</a>	Copyright 1996, 1997 Rickard E. Faith (faith@acm.org).

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	Daemon			md.8.html	
88.	Atomic_ops	7.4.0	MIT License	<a href="https://docs.oracle.com/cd/E36784_01/html/E36874/atomic-ops-3c.html">https://docs.oracle.com/cd/E36784_01/html/E36874/atomic-ops-3c.html</a>	Copyright © 1991-1994 by Xerox Corporation. All rights reserved. Copyright © 1996-1999 by Silicon Graphics. All rights reserved. Copyright © 1999-2003 by Hewlett-Packard Company. All rights reserved.
89.	Attr	2.4.47	GNU General Public License v2.0 or later	<a href="http://savannah.nongnu.org/projects/attr">http://savannah.nongnu.org/projects/attr</a>	Copyright (C) 2000,2001,2002,2003,2004,2005 Silicon Graphics, Inc. All Rights Reserved. Copyright (C) 2002,2003,2006,2007,2009 Andreas Gruenbacher <agruen@suse.de>, SuSE Linux AG.
90.	Avahi	0.6.31	GNU Lesser General Public License v2.1 or later	<a href="http://avahi.org/">http://avahi.org/</a>	Copyright (C) 1999 Tom Tromey, Copyright (C) 2010 Lennart Poettering, Copyright (C) 2000 Red Hat, Inc.
91.	base-passwd	3.5.29	GNU General Public License v2.0 only	<a href="http://packages.debian.org/source/wheezy/base-passwd">http://packages.debian.org/source/wheezy/base-passwd</a>	Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>, Copyright 2002, 2003, 2004 Colin Watson <cjwatson@debian.org>
92.	Bash	3.2.48	GNU General Public License v2.0 or later	<a href="http://www.gnu.org/software/bash/">http://www.gnu.org/software/bash/</a>	Copyright (C) 1987,1989,1991,1993-2007 Free Software Foundation, Inc
93.	bison	3.0.4, 2.7.1, 3.0.2	GNU General Public License v3.0 or later with Bison exception 2.2	<a href="http://savannah.gnu.org/projects/bison/">http://savannah.gnu.org/projects/bison/</a>	Copyright (C) 1984, 1989-1990, 2000-2015 Free Software Foundation, Inc.

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95.	BlueZ	4.101	GNU Lesser General Public License v2.1 or later	<a href="http://www.bluez.org/">http://www.bluez.org/</a>	Copyright (C) 2006-2010 Nokia Corporation, Copyright (C) 2004-2010 Marcel Holtmann <marcel@holtmann.org>.
96.	broli	0.1.1	MIT License	<a href="https://github.com/google/brotli/">https://github.com/google/brotli/</a>	Copyright (C) 2013,2014,2015 Google Inc. All Rights Reserved. Copyright 2010 Google Inc. All Rights Reserved.
97.	btrfs-progs	4.1.2	GNU General Public License v2.0 only	<a href="http://github.com/linsoniac/btrfs-progs/">http://github.com/linsoniac/btrfs-progs/</a>	Copyright(C) 1999 Andrea Arcangeli <andrea@suse.de>, Copyright(C) 2002 David Woodhouse <dwmw2@infradead.org>, Copyright(C) 2012 Michel Lespinasse <walken@google.com>, Copyright (C) 2008,2007,2009,2010,2012 Oracle. All rights reserved, Copyright (C) 2008 Morey Roof. All rights reserved, Copyright (C) 2011,2012,2013,STRATO AG. All rights reserved, Copyright (C) 2013,2014,2015,FUJITSU LIMITED. All rights reserved, Copyright (C) 2012 Alexander Block. All rights reserved, Copyright (C) 2014 Facebook. All rights reserved, Copyright

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98.	BusyBox	1.24.1	GNU General Public License v2.0 only	<a href="http://www.busybox.net">http://www.busybox.net</a>	Copyright (C) 2000,2001 by Glenn McGrath,Copyright (C) 2010 Nokia Corporation,Copyright (C) 1992-1993 Jean-loup Gailly Copyright (C) 2006 Aurelien Jacobs <aurel@gnuage.org>,Copy right (C) 2007,2010 Denys Vlasenko <vda.linux@googlemail.com>, Copyright (C) 1996-2006 Julian Seward <jseward@bzip.org>,Copyr ight (C) 1999-2005 Igor Pavlov, Copyright 2002 Laurence Anderson,Copyright (C) 1999-2004 by Erik Andersen <andersen@codepoet.org>,Copyright © 1999 by David I. Bell, Copyright (C) 1995 Bruce Perens,Copyright (C) 2004 by Ed Clark,Copyright (C) 2003 by Tito Ragusa <farmatito@tiscali.it>, Copyright (C) Arne Bernin <arne@matrix.loopback.org>,Copyright (C) 1998 Enrique Zanardi <ezanardi@ull.es>,Copyrig

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100	ca-certificates	20150426	GNU General Public License v2.0 or later	<a href="https://tracker.debian.org/pkg/ca-certificates">https://tracker.debian.org/pkg/ca-certificates</a>	# Copyright © 2003 Fumitoshi UKAI <ukai@debian.or.jp>, Copyright © 2009 Philipp Kern <pkern@debian.org>.
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102	cdparanoia	10.2	GNU General Public License v2.0 or later	<a href="http://www.xiph.org/paranoia/index">http://www.xiph.org/paranoia/index</a>	Copyright (C) 2001-2008 Xiph.org, Copyright (C) 1998-2008 Monty


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				x.html	monty@xiph.org.
103	Chkconfig	1.3.59	GNU General Public License v2.0 or later	<a href="http://www.fastcoder.net/software/chkconfig/">http://www.fastcoder.net/software/chkconfig/</a>	Copyright 1997-2009 Red Hat, Inc.
104	crda	3.18	copyleft-next 0.3.0	<a href="https://www.kernel.org/pub/software/network/crda/">https://www.kernel.org/pub/software/network/crda/</a>	Copyright © 2008, Luis R. Rodriguez <mcgrof@gmail.com>, Copyright 2006-2010 Johannes Berg <johannes@sipsolutions.net>, Copyright © 2008,2009, Johannes Berg <johannes@sipsolutions.net>, Copyright 2008 Michael Wu <flamingice@sourmilk.net>, Copyright 2008 Luis Carlos Cobo <luisca@cozybit.com>, Copyright 2008 Michael Buesch <m@bues.ch>, Copyright 2008 Jouni Malinen <jouni.malinen@atheros.com>, Copyright 2008 Colin McCabe <colin@cozybit.com>, Copyright © 2008, Michael Green <Michael.Green@Atheros.com>.
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269	v4utils_libdvb5	1.6.2	GNU General Public License v2.0 only	<a href="http://git.linuxtv.org/v4l-utils.git">http://git.linuxtv.org/v4l-utils.git</a>	Copyright © 2011-2014 - Mauro Carvalho Chehab, Copyright © 1999-2003 Mark W. McClelland. All rights reserved. Copyright 1998-2000 OmniVision Technologies.
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272	WavPack Lossless Audio Compressor	4.60.1	BSD 3-clause "New" or "Revised" License	<a href="http://sourceforge.net/projects/wavpack/">http://sourceforge.net/projects/wavpack/</a>	Copyright © 1998 - 2006 Conifer Software. MMX optimizations © 2006 Joachim Henke, All Rights Reserved.
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277	cryptopp	NA	Public Domain	<a href="http://github.com/mmooss/cryptopp/">http://github.com/mmooss/cryptopp/</a>	Written by->Wei Dai
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				son/	
280	libktx	2.0	BSD-like license (libktx)	<a href="https://www.khronos.org/opengles/sdk/tools/KTX/doc/libktx/licensing.html">https://www.khronos.org/opengles/sdk/tools/KTX/doc/libktx/licensing.html</a>	2008-2009 The Khronos Group Inc
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291	XML parser generator	NA	BSD 3-clause "New" or "Revised" License	<a href="http://sourceforge.net/projects/fatdom/">http://sourceforge.net/projects/fatdom/</a>	Copyright © 2002, Frank Vanden Berghen
292	NeuQuant Neural-Net Quantization Algorithm	NA	NeuQuant Neural-Net Quantization Algorithm License		Copyright (c) 1994 Anthony Dekker
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294	C++ XML Parser	2.23	BSD 3-clause "New" or "Revised" License	<a href="http://www.applied-mathematics.net/tools/xmlParser.html">http://www.applied-mathematics.net/tools/xmlParser.html</a>	Copyright (c) 2002, Frank Vanden Berghen
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296	lua-5	2.0-beta	MIT License	<a href="http://github.com/fanf2/lua-5/">http://github.com/fanf2/lua-5/</a>	1994-2016 Lua.org, PUC-Rio
297	lz4 Compression algorithm	r130	BSD 2-clause "Simplified" License	<a href="http://github.com/Cyan4973/lz4/">http://github.com/Cyan4973/lz4/</a>	Copyright (C) 2011-2014, Yann Collet.
298	RapidXml	1.13	MIT License	<a href="http://sourceforge.net/projects/rapidxml/">http://sourceforge.net/projects/rapidxml/</a>	- Copyright © 2006, 2007 Marcin Kalicinski
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##### v. 2.1

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Version 3.1, 31 March 2009

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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.)

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

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

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this user a copy.

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## 2.24 ICU License

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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### NeuQuant Neural-Net Quantization Algorithm License

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This reference implementation is originally derived from the On2 VP3 Codec Software, and the Theora video format is essentially compatible with the VP3 video format, consisting of a backward-compatible superset.

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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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```
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Glenn Randers-Pehrson  
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September 10, 2009

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The authors can be contacted at <libzip@nih.at>

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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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### **3.2.13 GCC libstdc++**

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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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### **3.2.28 WPA Supplicant**

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### **3.2.28.1 RealVNC modifications to WPA Supplicant**

RealVNC has applied the following patch:

<http://w1.fi/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.