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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22 nd Dec 2020

Table of Contents


1	List of used Open Source Components.	5
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	Mozilla Public License 2.0.....	196
2.34	NeuQuant Neural-Net Quantization Algorithm License	201
2.35	OSF - X Consortium License.....	202
2.36	OSGARTH SOFTWARE LICENSE	203
2.37	OpenSSL Combined License	204
2.38	OpenSceneGraph Public License	206
2.39	OpenSceneGraph Public License, Version 0.0	207
2.40	PCRE 5 License	208
2.41	Public Domain.....	209
2.42	Python License 2.0	210
2.43	Stanford SRP Authentication Project License	211
2.44	TCP Wrappers License	212
2.45	Unicode License.....	213
2.46	Unicode License for Data Files and Software	214
2.47	Utm License	215
2.48	VNC END USER LICENSE AGREEMENT.....	216

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22 nd Dec 2020

2.49	copyleft-next 0.3.0	220
2.50	curl License.....	227
2.51	libpng License.....	228
2.52	libtheora License	230
2.53	libtiff License	231
2.54	stunnel GPL 2.0 with Exception License.....	232
2.55	zlib License	233
3.	Other Open Source Dependencies:	234
3.1.1	X Windows - XFree86 1.9.....	234
3.1.2.	Zlib - 1.1.4.....	234
3.1.3.	OpenSSL - 0.9.8x.....	234
3.1.4.	SHA	234
3.1.5.	AES	234
3.1.6.	EAX.....	234
3.1.7.	Expat - 2.0.1.....	235
3.1.8.	Libpng - 1.2.40.....	235
3.1.9.	Libzip - 0.9	235
3.1.10.	JPEG - 6b.....	235
3.1.11	Libjpegturbo - 1.2.1	235
3.1.12	GCC libstdc++ - 4.1.2	235
3.1.13	Keysymdef.....	236
3.1.14	Endian	236
3.1.15	JRTPLIB - 3.9.1	236
3.1.16	JThread - 1.3.1	236
3.1.17	Portaudio - 1.9	236
3.1.18	Libxml2 - 2.9.1	236
3.1.19	Miniupnpc - 1.5	236
3.1.21	LibTomCrypt - 1.16	237
3.1.22	LibTomMath - 0.39.....	237
3.1.23	Base64.java - 2.3.5.2.	237
3.1.24	Internal Android OS APIs.....	237
3.1.25	ExtractMpeg FramesTest. java	237
3.1.26	Libupnp (pupnp) - 1.6.19.....	237
3.1.27	Libxml2 - 2.9.1	237
3.1.28	OpenSSL - 0.9.8x.....	238
3.1.29	Wpa_supplicant - 2.3.....	238
3.1.30	Pythonpsutil_2.1.3.bb.....	238
3.1.31	Android SupportLibraries - 19.0.0	238
3.1.33	axTLS - 1.1.8	238
3.1.34	Action - 0.1.1.....	238
3.1.35	Android - platform - frameworks – base - 4.0.1_r1.....	238
3.1.36	Android - platform - prebuilts – sdk - 4.4_r1.....	238
3.1.37	Android SDK Support Libraries – 19,23.1.1	239
3.1.38	Android SDK Support Libraries	239
3.1.39	Mongolddu - master-20121109	239
3.1.40	Stan-for-Android - 0.1.0	239
3.1.41	doT - 1.0.1.....	239
3.1.42	JQuery: 2.0.3.....	239
3.1.43	jquery_mobile_rails - 1.3.2.....	240
3.1.44	SafeSlinger-Android - 1.8.3-messenger	240
3.1.45	OpenSSL.....	240

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22 nd Dec 2020


3.1.46 CRC32	240
3.1.47 SHA-1 in C	240
3.1.48 SyncML C Toolkit - 4.0.3	240
3.1.49 CMarkup - 11.05	240
3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition	240
3.1.51 LZO real-time data compression library - 2.04	241
3.1.52 UCL Data Compression Library - 1.03	241
3.1.53 Android - platform - bootable – recovery - 4.0.1_r1	241
3.1.54 Android - platform - bootable – recovery - 5.0.0_r1	241
3.1.55 Android - platform - bootable – recovery - 2.3_r1	241
3.1.56 Android - platform - system – core - 4.2.....	241
3.1.57 File system in Userspace - 2.8.7	241
3.1.58 lz4 Compression algorithm - r111	241
3.1.59 Android -platform - system - core/libmincrypt	242
3.1.60 lucy search engine – lucy - 0.6.0	242
3.1.61 NetBSD - 1.4	242
3.1.62 Open BSD - 4.5.....	242
3.1.63 Bsdiff - 4.3.....	242
3.1.64 GNU C Library – glibc - 2.2.4.....	242
3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0.....	242
3.1.66 squashfs - a compressed fs for Linux - squashfs4.3	242
3.1.67 File system in User space - 2.9.3	242
3.1.68 Libdivsufsort - 2.0.0.....	243
3.1.69 Test-SQLite-blob - trunk-20120916-svn	243
3.1.70 7 Zip - LZMA SDK - 9.2	243
3.1.71 7-Zip - 7-Zip -3.11.....	243
3.1.72 CRC32 MIT.edu	243
3.1.73 XZ Utils -5.0.7	243
3.1.74 Zlib - 1.2.3.....	243
3.1.75 Android - platform – dalvik - 2.1_r1	243
3.1.76 Wapiti (Public Domain).....	243
3.2 Licensing, copyright, acknowledgements, and modifications	244
3.2.1 X Windows.....	245
3.2.1.1 The Open Group.....	245
3.2.1.2 Digital Equipment Corporation	245
3.2.1.3 Digital Equipment Corporation - Panoramix components.....	246
3.2.2 Zlib.....	246
3.2.3 OpenSSL	247
3.2.3.1 The OpenSSL Project	247
3.2.3.2 Eric Young.....	249
3.2.3.3 RealVNC modifications to OpenSSL.....	250
3.2.4 SHA	250
3.2.4.1 Dr Brian Gladman	250
3.2.4.2 Cameron Rich	251
3.2.5 AES	252
3.2.6 EAX	253
3.2.7 libjpeg-turbo	253
3.2.8 expat.....	254
3.2.9 libpng.....	255
3.2.10 libzip	257

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22 nd Dec 2020

3.2.10.2	Free Software Foundation	258
3.2.10.4	RealVNC modifications to libzip	259
3.2.11	FreeType	260
3.2.11.1	Definitions	260
3.2.11.2	No Warranty	260
3.2.11.3	Redistribution	260
3.2.11.4	Advertising	261
3.2.12	LodePNG	261
3.2.13	GCC libstdc++	262
3.2.14	keysymdef	262
3.2.15	Endian	263
3.2.16	JRTPLIB	263
3.2.17	JThread	264
3.2.18	portaudio	264
3.2.19	libxml2	265
3.2.19.1	License	265
3.2.19.2	hash.c	266
3.2.19.3	list.c	266
3.2.19.4	trio.c, trio.h	266
3.2.19.5	RealVNC modifications to libxml2	267
3.2.20.1	Copyright notice	267
3.2.20.2	License	267
3.2.21	LibTomCrypt	268
3.2.22	LibTomMath	268
3.2.23	Base64.java	269
3.2.24	Internal Android OS APIs	269
3.2.25	ExtractMpegFramesTest.java	269
3.2.26	libupnp (pupnp)	270
3.2.27	libudev	271
3.2.28	WPA Supplicant	272
3.2.28.2	ath9k_faf1dc64_backport.patch	273
3.2.28.3	python-psutil_2.1.3.bb	273
3.2.29	Android Support Libraries	274
3.2.30	VNC Wi-Fi Display i.MX6 sample decoder	274
3.2.31	mxcfb.h	274
3.2.32	axTLS	275


1 List of used Open Source Components.

This document contains a list of open source software (OSS) components used within the


 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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 "Simplified" License	http://github.com/vlm/asn1c/	Copyright © 2004, 2006 Lev Walkin <vlm@lionet.info>. All rights reserved, Copyright

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


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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://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	1.0	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 License v2 or later	http://sourceforge.net/projects/fuse/	2001-2007 Miklos Szeredi
17.	Fontconfig	2.11.94	MIT License	http://freed	2001 Keith Packard

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


				esktop.org/wiki/Software/fontconfig	
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	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
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/	2007-2013 Free Software Foundation, Inc. 1983, 1989, 1993 The Regents of

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


				bc.html	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 Gmb H
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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


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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>
37.	libgpgcrypt	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
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, 8d,9	Independent JPEG Group License	http://www.ijg.org/	Copyright (C) 1994-1997, Thomas G. Lane
40.	libmtp	1.1.6, 1.1.5	GNU Library General Public	http://sourceforge.net/	Copyright (C) 2005-2012 Linus Walleij

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22 nd Dec 2020


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41.	libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	http://www .infradead.o rg/~tgr/libnl /	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
42.	libsigc++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsig c.sourceforge e.net/	2002, The libsigc++ Development Team
43.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	http://www .mega- nerd.com/li bsndfile/	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	https://bitb ucket.org/s huerhaaken /libtaginfo/s rc/4c8c4f83 9907cd3773 1963fb7db2 ca7a8bc84b 38?at=mast er	2013 Jörn Magens
45.	LIBUNIBREAK	2.1	zlib License	http://vimg adgets.sour ceforge.net/ libunibreak/	2008-2011 Wu Yongwei, 2012 Tom Hacohen <tom@stosb.com>
46.	Libunwind	Unspecif ied, 1.1	MIT License	http://sava nnah.nongn u.org/projec ts/libunwin	(C) 2008 CodeSourcery Copyright (C) 2002-2004

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


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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>
50.	litehtml	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/litehtml/	Copyright (C) 1994-1997, Thomas G. Lane.
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	Unspecified	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008
53.	mDNSResponder	Unspecified, 625.41. 2	Apache License 2.0	http://github.com/Sha0/mDNSResponder/	2003-2013 Apple Computer, Inc. All rights reserved

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


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	Unspecified	NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~dekker/NEUQUANT.HTM	1994 Anthony Dekker
57.	OpenSSL	NA, 1.0.2n, 1.0.2q	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/richmoo/QRCode	Copyright © 2017 Richard Moore
61.	qt5	5.6.1	LGPL 2.1 or later with Qt Company LGPL Exception	http://github.com/qtproject/qt5/	© 2015 The Qt Company Ltd.

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020


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62.	RBTree algorithm	Unspecified	Public Domain	http://eternallyconfuzzled.com/tuts/datastructures/jswtut_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
63.	RealVNC	Unspecified	VNC END USER LICENSE AGREEMENT	http://www.realvnc.com/	2002-2018 RealVNC Ltd. All Rights Reserved
64.	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
65.	systemd	Unspecified, 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 dot com)
67.	TagLib Audio Meta-Data Library	Unspecified	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 reserved. Copyright © 2003, Michael E. Smoot . Copyright © 2004, Michael E. Smoot, Daniel Aarno All rights reserved Confirmed By

 BOSCH	OSS Disclosure Document	DATE
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2006-Jan-27

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Our home page can be found at

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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


If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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.

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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.)

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	22nd Dec 2020

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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

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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

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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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3.1.67 File system in User space - 2.9.3

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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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3.1.73 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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- 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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5.2.10.3 The Regents of the University of California (see the file mkstemp.c):

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.

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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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3.2.19.4 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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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

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<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

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3.2.32 RealVNC modifications to axTLS

Some unwanted type and function definitions have been removed.