 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18 th Aug 2020

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	OSGEOGRAPH 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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18 th Aug 2020


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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18 th Aug 2020

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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18 th Aug 2020


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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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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://github	Copyright © 2004, 2006

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


			"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://cairo graphics.org /introductio n	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	ConnMan	1.35	GNU General Public License v2.0 only	http://conn man.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.or g/Public/PR OGRAMS/C VTUTF	2001 Unicode, Inc. http://unicode.org/
13.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	http://www .freedesкто p.org/wiki/I ntroduction ToDBus	2003 CodeFactory AB
14.	Developers Image Library - DevIL	1.7.8	GNU Lesser General Public License v2.1 or later	http://sourc eforge.net/ projects/op enil/	2000-2009 by Denton Woods, 2001 David Galeano
15.	ECNR	NA	Academic Free License v2.1		2010 © MontaVista Software, LLC.
16.	Filesystem in Userspace	2.9.4	GNU Library General Public	http://sourc eforge.net/ projects/fus	2001-2007 Miklos Szeredi

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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,

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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>
37.	libgcrypt	1.5.3, 1.6.3	GNU Lesser General Public License v2.1 or later	http://www.gnupg.org	Copyright (C) 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2012, 2013 g10 Code GmbH
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-

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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40.	libmtp	1.1.6, 1.1.5	GNU Library General Public License v2 or later	http://sourceforge.net/projects/libmtp/	Copyright (C) 2005-2012 Linus Walleij <triad@df.lth.se> Copyright (C) 2005-2008 Richard A. Low <richard@wentnet.com> Copyright (C) 2007 Ted Bullock <tbullock@canada.com> Copyright (C) 2008 Florent Mertens <flomertens@gmail.com>
41.	libnl - Netlink Library	3.2.25	GNU Lesser General Public License v2.1 or later	http://www.infradead.org/~tgr/libnl/	Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>
42.	libsigt++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsigt++.sourceforge.net/	2002, The libsigt++ Development Team
43.	Libsndfile	1.0.27, 1.0.25	GNU Lesser General Public License v2.1 or later	http://www.mega-nerd.com/libsndfile/	Copyright (C) 1999- 2011 Erik de Castro Lopo <erikd@mega-nerd.com>
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>

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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>
50.	litehtml	NA	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	NA	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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://launched.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://launched.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/~d Dekker/NEUQUANT.HT ML	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/QRCode	Copyright © 2017 Richard Moore

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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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 dOt 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 reserved. Copyright © 2003, Michael E. Smoot . Copyright © 2004, Michael E. Smoot, Daniel Aarno All rights reserved

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020


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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

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Our home page can be found at

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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A "covered work" means either the unmodified Program or a work based on the Program.

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1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it.

"Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work. The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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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

 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 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.)

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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 BOSCH	OSS Disclosure Document	DATE
CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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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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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

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3.1.18 Libxml2 - 2.9.1

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3.1.19 Miniupnpc - 1.5

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3.1.21 LibTomCrypt - 1.16

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3.1.22 LibTomMath - 0.39

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3.1.23 Base64.java - 2.3.5.2.

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3.1.24 Internal Android OS APIs

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3.1.25 ExtractMpeg FramesTest. java

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3.1.26 Libupnp (pupnp) - 1.6.19

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3.1.29 Wpa_supplicant - 2.3

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3.1.30 Pythonpsutil_2.1.3.bb

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3.1.33 axTLS - 1.1.8

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3.1.34 Action - 0.1.1

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3.1.35 Android - platform - frameworks – base - 4.0.1_r1


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3.1.36 Android - platform - prebuilts – sdk - 4.4_r1

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3.1.37 Android SDK Support Libraries – 19,23.1.1

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3.1.38 Android SDK Support Libraries

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3.1.39 Mongolduu - master-20121109

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3.1.40 Stan-for-Android - 0.1.0

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3.1.41 doT - 1.0.1


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3.1.44 SafeSlinger-Android - 1.8.3-messenger

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3.1.46 CRC32

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3.1.47 SHA-1 in C

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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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3.1.63 Bsdiff - 4.3

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Home Page: <http://www.daemonology.net/bsdiff/>

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3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0

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3.1.71 7-Zip - 7-Zip -3.11

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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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```
printf("%s",png_get_copyright(NULL));
```

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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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This file is part of libzip, a library to manipulate ZIP archives.

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

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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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CM_CI1	CM_AI_PRJ_RN_AIVI_Scope2.1	18th Aug 2020

- 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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3.2.18 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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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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@author Robert Harder

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@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 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.