 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16 th Mar 2021

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	Mozilla Public License 2.0.....	196
2.34	NeuQuant Neural-Net Quantization Algorithm License	201
2.35	OSF - X Consortium License.....	202
2.36	OSGEOGRAPH 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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16 th Mar 2021


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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16 th Mar 2021

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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


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

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


1 List of used Open Source Components.

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Sl.No	Name of OSS Component	Version of OSS Component	Name and Version of License (License text can be found in Appendix below)	Home Page	More Information
1.	fastlz	0.1.0	MIT License	http://code.google.com/p/fastlz/	Copyright (C) 2005,2006,2007 Ariya Hidayat (ariya@kde.org)
2.	RFC1321-based (RSA-free) MD5 library	1.6	zlib License	http://sourceforge.net/projects/libmd5-rfc/	Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved
3.	sqlite3	3.7.5	Public Domain	http://rubygems.org/gems/sqlite3	
4.	AES - Advanced Encryption Standard	1.0	zlib License	http://www.lomont.org/Software/Misc/AES/AES.php	2000-2005 Chris Lomont
5.	Alsa Libraries	1.0.29	GNU Lesser General Public License v2.1 or later	https://www.alsa-project.org/wiki/ALSA_Library_API	2010 Red Hat Inc.
6.	Android - platform - bootable - recovery	NA	Apache License 2.0	http://developer.android.com/index.html	2007 The Android Open Source Project
7.	asn1c	0.9.27	BSD 2-clause	http://github	Copyright © 2004, 2006

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


			"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, 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://cairo graphics.org /introductio n	Carl Worth and Keith Packard, 2005 Red Hat, Inc
10.	Collabora	Unspec ified	Mozilla Public License 2.0	https://ww w.collabora office.com/	Copyright © 2016 Collabora Ltd
11.	ConnMan	1.35	GNU General Public License v2.0 only	http://conn man.net/	2007-2012 Intel Corporation. All rights reserved.
12.	curl	7.59.0, 7.52.1	curl License	https://curl. haxx.se/	Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al
13.	CVTUTF	1.0	Unicode License	http://www .unicode.or g/Public/PR OGRAMS/C VTUTF	2001 Unicode, Inc. http://unicode.org/
14.	D-Bus	1.0, 1.12.2	Academic Free License v2.1	http://www .freedeskto p.org/wiki/I ntroduction ToDBus	2003 CodeFactory AB
15.	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
16.	ECNR	NA	Academic Free		2010 © MontaVista

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


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17.	Filesystem in Userspace	2.9.4	GNU Library General Public License v2 or later	http://sourceforge.net/projects/fuse/	2001-2007 Miklos Szeredi
18.	Fontconfig	2.11.94	MIT License	http://freedesktop.org/wiki/Software/fontconfig	2001 Keith Packard
19.	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
20.	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
21.	GDK-Pixbuf	2.0, 2.30.8	GNU Library General Public License v2 or later	http://www.gnome.org/	2003 The Free Software Foundation
22.	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
23.	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
24.	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

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


25.	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
26.	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.
27.	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>
28.	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
29.	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
30.	IPTables	1.4.21	GNU General Public License v2.0 or later	http://www.netfilter.org/	Copyright (C) 2016 Robert Bosch Car Multimedia GmbH
31.	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

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


32.	jsoncpp	1.7.7	MIT License	http://sourceforge.net/projects/jsoncpp/	2007-2010 Baptiste Lepilleur,
33.	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]
34.	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
35.	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>
36.	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>
37.	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>
38.	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

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


39.	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
40.	libjpeg	9a,8b,8d,9	Independent JPEG Group License	http://www.ijg.org/	Copyright (C) 1994-1997, Thomas G. Lane
41.	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>
42.	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>
43.	libsigs++	2.2.11	GNU Lesser General Public License v2.1 or later	http://libsigs.c.sourceforge.net/	2002, The libsigs++ Development Team
44.	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>
45.	LIBTAGINFO	0.1.6	GNU Lesser General Public License v2.1 only	https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master	2013 Jörn Magens

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


46.	LIBUNIBREAK	2.1	zlib License	http://vimadgets.sourceforge.net/libunibreak/	2008-2011 Wu Yongwei, 2012 Tom Hacoen <tom@stosb.com>
47.	Libunwind	Unspecified, 1.1	MIT License	http://savannah.nongnu.org/projects/libunwind/	(C) 2008 CodeSourcery Copyright (C) 2002-2004 Hewlett-Packard Co
48.	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
49.	libxml2	2.9.2, 2.9.8	MIT License	http://xmlsoft.org/	2000, 2012 Bjorn Reese and Daniel Veillard
50.	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>
51.	litehtml	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/litehtml/	Copyright (C) 1994-1997, Thomas G. Lane.
52.	Lua - Post 4.x	5.2.3, 5.3.3	Lua 5.0 License	http://www.lua.org/	1994-2016 Lua.org, PUC-Rio

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


53.	lxc	Unspecified	GNU Lesser General Public License v2.1 or later	http://github.com/lxc/lxc/	Copyright IBM Corp. 2007, 2008
54.	mDNSResponder	Unspecified, 625.41.2	Apache License 2.0	http://github.com/Sha0/mDNSResponder/	2003-2013 Apple Computer, Inc. All rights reserved
55.	mosquitto: an mqtt message broker	1.3.4	BSD 3-clause "New" or "Revised" License	https://launchedpad.net/mosquitto	Copyright (c) 2010-2014 Roger Light <roger@atchoo.org>All rights reserved
56.	mosquitto: an mqtt message broker	1.4.13	Eclipse Public License 1.0	https://launchedpad.net/mosquitto	Copyright © 2010-2014 Roger Light <roger@atchoo.org> All rights reserved
57.	NeuQuant - Neural Image Quantization	Unspecified	NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.au/~d Dekker/NEUQUANT.HT ML	1994 Anthony Dekker
58.	OpenSSL	NA, 1.0.2n, 1.0.2q	OpenSSL Combined License	http://www.openssl.org/	Copyright (C) 1995-1998 Eric Young All rights reserved
59.	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
60.	protobuf	2.3.0, 3.0.0	BSD 3-clause "New" or "Revised" License	http://github.com/localshred/protobuf/	Copyright 2008 Google Inc

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


61.	QRCode	0.0.1	MIT License	https://github.com/ricmoo/QRCode	Copyright © 2017 Richard Moore
62.	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.
63.	RBTree algorithm	Unspecified	Public Domain	http://eternallyconfuzzled.com/tuts/datastructures/js/tut_rbtree.aspx	Socionext Embedded Software Austria GmbH (SESA) All rights reserved.
64.	RealVNC	Unspecified	VNC END USER LICENSE AGREEMENT	http://www.realvnc.com/	2002-2018 RealVNC Ltd. All Rights Reserved
65.	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
66.	systemd	Unspecified, 225	GNU Lesser General Public License v2.1 or later	http://freedesktop.org/wiki/Software/systemd/	2013 Lennart Poettering
67.	Tadween	1.0.4	MIT License	http://sourceforge.net/projects/tadween/	2009 Mohammad Arabix (mohammadhi at gmail dot com)
68.	TagLib Audio Meta-Data Library	Unspecified	GNU Lesser General Public License v2.1 or later	http://taglib.github.com/	2008 by Scott Wheeler
69.	Templatized C++ Command	1.2.1	MIT License	http://sourceforge.net/	Copyright © 2003, Michael E. Smoot . All

 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021


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2006-Jan-27

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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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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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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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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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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.

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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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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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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 BOSCH	OSS Disclosure Document	DATE
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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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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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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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
XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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XC_CI1	XC_AI_PRJ_RN_AIVI_Scope2.1	16th Mar 2021

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Written by: Philip Hazel {ph10@cam.ac.uk}

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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

Home Page: <http://developer.android.com/index.html>

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3.1.37 Android SDK Support Libraries – 19,23.1.1

Home Page: <https://developer.android.com/tools/support-library/index.html>

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3.1.38 Android SDK Support Libraries

Drools:: Scorecards - 5.5.0.Final

Home Page : <http://mirrors.ibiblio.org/maven2/org/drools/drools-scorecards/>

License: Apache License 2.0

3.1.39 Mongolduu - master-20121109

Home Page: <http://github.com/tugstugi/mongolduu/>

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3.1.40 Stan-for-Android - 0.1.0

Home Page: <http://github.com/Label305/Stan-for-Android/>

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3.1.41 doT - 1.0.1


Home Page: <http://github.com/olado/doT/>

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3.1.42 JQuery: 2.0.3

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3.1.43 jquery_mobile_rails - 1.3.2

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3.1.44 SafeSlinger-Android - 1.8.3-messenger

Home Page: <http://github.com/SafeSlingerProject/SafeSlinger-Android/>

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3.1.45 OpenSSL

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3.1.46 CRC32

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3.1.47 SHA-1 in C

Home Page: <http://www.mirrors.wiretapped.net/security/cryptography/ hashes/sha1>

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3.1.48 SyncML C Toolkit - 4.0.3


Home Page: <http://sourceforge.net/projects/syncml-ctoolkit/>

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3.1.49 CMarkup - 11.05

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3.1.52 UCL Data Compression Library - 1.03

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3.1.54 Android - platform - bootable – recovery - 5.0.0_r1

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3.1.55 Android - platform - bootable – recovery - 2.3_r1

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3.1.56 Android - platform - system – core - 4.2

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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

Home Page: <http://code.google.com/p/lz4/>

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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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3.1.62 Open BSD - 4.5

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3.1.63 Bsdiff - 4.3

Home Page: <http://github.com/geraldonetto/bsdiff/>

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

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3.1.64 GNU C Library – glibc - 2.2.4

Home Page: <http://www.gnu.org/software/libc/libc.html>

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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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3.1.68 Libdivsufsort - 2.0.0

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

Home Page: <http://code.google.com/p/test-sqlite-blob/>
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3.1.70 7 Zip - LZMA SDK - 9.2

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3.1.71 7-Zip - 7-Zip -3.11

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3.1.73 XZ Utils -5.0.7

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3.1.74 Zlib - 1.2.3


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3.1.75 Android - platform – dalvik - 2.1_r1

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- 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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- 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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Project: miniupnp

Project web page: <http://miniupnp.free.fre/> or <http://miniupnp.tuxfamily.org/>

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3.2.20.3 RealVNC modifications to

miniupnpc The following modifications

have been made:

- Requests have been cancelled.
- MirrorLink-specific functionality has been added.
- Functionality specific to building for different hardware architectures has been added.

3.2.21 LibTomCrypt

LibTomCrypt, modular cryptographic library -- Tom St Denis


LibTomCrypt is a library that provides various cryptographic algorithms in a highly modular and flexible manner.

The library is free for all purposes without any express guarantee it works.

Tom St Denis, tomstdenis@gmail.com, <http://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

@author rob@iharder.net

@version 2.3.5.2.

3.2.24 Internal Android OS APIs

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3.2.25 ExtractMpegFramesTest.java

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3.2.26 libupnp (pupnp)

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3.2.27 libudev

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3.2.28.1 RealVNC modifications to WPA Supplicant

RealVNC has applied the following patch:

<http://w1.fi/cgiit/hostap/patch/?id=f2b3acc9d5.2.b91fbaccfc9dd8d408>

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3.2.28.2 ath9k_faf1dc64_backport.patch

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3.2.28.3 python-psutil_2.1.3.bb


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3.2.30 VNC Wi-Fi Display i.MX6 sample decoder


The information in this section expands upon that summarized in section 6.2, *VNC Wi-Fi Display i.MX6 sample decoder*.

3.2.31 mxcfb.h

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3.2.32 axTLS

axTLS Embedded SSL

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3.2.32 RealVNC modifications to axTLS

Some unwanted type and function definitions have been removed.