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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>

## Table of Contents

<b>1</b>	<b>List of used Open Source Components. ....</b>	<b>7</b>
<b>2</b>	<b>Appendix - License Text .....</b>	<b>110</b>
2.1	<b>BSD-4-Clause (University of California-Specific) .....</b>	<b>110</b>
2.2	<b>Academic Free Licensev. 2.1 .....</b>	<b>111</b>
2.3	<b>Academic Free License v1.1 .....</b>	<b>113</b>
2.4	<b>Apache License 1.1 .....</b>	<b>115</b>
2.5	<b>Apache License 2.0 .....</b>	<b>116</b>
2.6	<b>Apple Public Source License 1.1 .....</b>	<b>119</b>
2.7	<b>Artistic License 1.0 .....</b>	<b>126</b>
2.8	<b>BSD 2-clause "Simplified" License.....</b>	<b>129</b>
2.9	<b>BSD 3-clause "New" or "Revised" License.....</b>	<b>129</b>
2.10	<b>BSD-4-Clause (University of California-Specific) .....</b>	<b>130</b>
2.11	<b>Bzip2 License .....</b>	<b>130</b>
2.12	<b>Expat License.....</b>	<b>131</b>
2.13	<b>Fine Free File Command License .....</b>	<b>132</b>
2.14	<b>Freetype Project License .....</b>	<b>132</b>
2.15	<b>FSF - Configure Script.....</b>	<b>134</b>
2.16	<b>FSF Document.....</b>	<b>135</b>
2.17	<b>GCC Runtime Library Exception 3.1 to GPL 3.0 .....</b>	<b>135</b>
2.18	<b>GNU General Public License v2.0 only .....</b>	<b>143</b>
2.19	<b>GNU General Public License v2.0 or later .....</b>	<b>149</b>
2.20	<b>GNU General Public License v3.0 or later with Bison exception 2.2 .....</b>	<b>156</b>
2.21	<b>GNU Lesser General Public License v2.1 only.....</b>	<b>164</b>
2.22	<b>GNU Free Documentation License v1.2 or later .....</b>	<b>172</b>
2.23	<b>GNU Free Documentation License v1.3 or later .....</b>	<b>172</b>
2.24	<b>GNU Copyright statement -Verbatim copies .....</b>	<b>179</b>
2.25	<b>GPL V2 or later with autoconf exception.....</b>	<b>180</b>
2.26	<b>GPL V2 or later with texinfo exception .....</b>	<b>180</b>
2.27	<b>GPL V3 or later with GCC Runtime Library Exception .....</b>	<b>181</b>
2.28	<b>GPL-1.0+ .....</b>	<b>182</b>
2.29	<b>GNU Library General Public License v2 or later.....</b>	<b>186</b>
2.30	<b>ICU License.....</b>	<b>193</b>
2.31	<b>ISC License .....</b>	<b>194</b>
2.32	<b>Independent JPEG Group License .....</b>	<b>194</b>
2.33	<b>Info-Zip encryption/decryption License .....</b>	<b>196</b>
2.34	<b>Info-ZIP Updated License.....</b>	<b>197</b>
2.35	<b>MIT License.....</b>	<b>198</b>
2.36	<b>MIT – Modern Variant.....</b>	<b>198</b>
2.37	<b>MPL-2.0-no-copyleft-exception.....</b>	<b>199</b>
2.38	<b>Mozilla Public License 2.0 .....</b>	<b>205</b>
2.39	<b>OSF - X Consortium License.....</b>	<b>210</b>
2.40	<b>OpenSSL Combined License .....</b>	<b>211</b>
2.41	<b>OpenSceneGraph Public License, Version 0.0 .....</b>	<b>213</b>
2.42	<b>PCRE 5 License .....</b>	<b>219</b>
2.43	<b>Public Domain.....</b>	<b>220</b>
2.44	<b>Python License 2.0 .....</b>	<b>220</b>
2.45	<b>TCP Wrappers License .....</b>	<b>221</b>
2.46	<b>Copyleft-next 0.3.0.....</b>	<b>221</b>
2.47	<b>curl License.....</b>	<b>224</b>

 <b>BOSCH</b>	OSS Attribution Document	DATE
CM-CI1	Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x	25 <sup>th</sup> –June-2020

2.48	libpng License .....	224
2.49	libtheora License .....	226
2.50	libtiff License .....	227
2.51	zlib License .....	227
2.52	Boost Software License - Version 1.0 .....	228
2.53	Unicode License .....	228
2.54	FreeImage Public License - Version 1.0 .....	229
2.55	Unicode License for Data Files and Software .....	235
2.56	Lua 5.0 license .....	236
2.57	NeuQuant Neural-Net Quantization Algorithm License .....	236
2.58	License for Delaunay-Triangulation .....	237
2.59	Eclipse Public License 1.0 .....	237
2.60	LGPL 2.1 or later with Qt Company LGPL Exception version 1.1 .....	240
2.61	Stunnel GPL 2.0 with Exception License .....	241
2.62	BSD-like license (libktx) .....	247
2.63	UTM.....	249
2.64	Eclipse Distribution License - v 1.0.....	249
2.65	OpenScene Graph .....	249
2.66	OSGEARTH SOFTWARE LICENSE .....	256
2.67	X11.....	258
2.68	Stanford SRP Authentication Project License .....	259
3.	Other Open Source Dependencies: .....	260
3.1.1	X Windows - XFree86 1.9.....	260
3.1.2	Zlib - 1.1.4.....	260
3.1.3	OpenSSL - 0.9.8x.....	260
3.1.4	SHA .....	260
3.1.5	AES .....	260
3.1.6	EAX.....	261
3.1.7	Expat - 2.0.1.....	261
3.1.8	Libpng - 1.2.40.....	261
3.1.9	Libzip - 0.9 .....	261
3.1.10	JPEG - 6b.....	261
3.1.11	Libjpegturbo - 1.2.1 .....	261
3.1.12	GCC libstdc++ - 4.1.2 .....	262
3.1.13	Keysymdef.....	262
3.1.14	Endian .....	262
3.1.15	JRTPLIB - 3.9.1 .....	262
3.1.16	JThread - 1.3.1 .....	262
3.1.17	Portaudio - 1.9 .....	262
3.1.18	Libxml2 - 2.9.1 .....	262
3.1.19	Miniupnpc - 1.5 .....	262
3.1.21	LibTomCrypt - 1.16 .....	263
3.1.22	LibTomMath - 0.39.....	263
3.1.23	Base64.java - 2.3.5.2. ....	263
3.1.24	Internal Android OS APIs.....	263
3.1.25	ExtractMpeg FramesTest. java .....	263
3.1.26	Libupnp (pupnp) - 1.6.19.....	263
3.1.27	Libxml2 - 2.9.1 .....	264
3.1.28	OpenSSL - 0.9.8x.....	264
3.1.29	Wpa_supplicant - 2.3.....	264

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>

3.1.30 Pythonpsutil_2.1.3.bb.....	264
3.1.31 Android SupportLibraries - 19.0.0 .....	264
3.1.33 axTLS - 1.1.8 .....	264
3.1.34 Action - 0.1.1.....	265
3.1.35 Android - platform - frameworks – base - 4.0.1_r1.....	265
3.1.36 Android - platform - prebuilts – sdk - 4.4_r1.....	265
3.1.37 Android SDK Support Libraries – 19,23.1.1 .....	265
3.1.38 Android SDK Support Libraries .....	265
3.1.39 Mongolduu - master-20121109.....	265
3.1.40 Stan-for-Android - 0.1.0 .....	265
3.1.41 doT - 1.0.1.....	266
3.1.42 JQuery: 2.0.3 .....	266
3.1.43 jquery_mobile_rails - 1.3.2 .....	266
3.1.44 SafeSlinger-Android - 1.8.3-messenger.....	266
3.1.45 OpenSSL .....	266
3.1.46 CRC32 .....	266
3.1.47 SHA-1 in C .....	266
3.1.48 SyncML C Toolkit - 4.0.3.....	267
3.1.49 CMarkup - 11.05 .....	267
3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition .....	267
3.1.51 LZO real-time data compression library - 2.04.....	267
3.1.52 UCL Data Compression Library - 1.03.....	267
3.1.53 Android - platform - bootable – recovery - 4.0.1_r1.....	267
3.1.54 Android - platform - bootable – recovery - 5.0.0_r1.....	267
3.1.55 Android - platform - bootable – recovery - 2.3_r1 .....	267
3.1.56 Android - platform - system – core - 4.2 .....	267
3.1.57 File system in Userspace - 2.8.7 .....	268
3.1.58 lz4 Compression algorithm - r111 .....	268
3.1.59 Android -platform - system - core/libmincrypt.....	268
3.1.60 lucy search engine – lucy - 0.6.0.....	268
3.1.61 NetBSD - 1.4 .....	268
3.1.62 Open BSD - 4.5 .....	268
3.1.63 Bsdiff - 4.3 .....	268
3.1.64 GNU C Library – glibc - 2.2.4 .....	268
3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0.....	269
3.1.66 squashfs - a compressed fs for Linux - squashfs4.3 .....	269
3.1.67 File system in User space - 2.9.3 .....	269
3.1.68 Libdivsufsort - 2.0.0 .....	269
3.1.69 Test-SQLite-blob - trunk-20120916-svn.....	269
3.1.70 7 Zip - LZMA SDK - 9.2 .....	269
3.1.71 7-Zip - 7-Zip -3.11 .....	269
3.1.72 CRC32 MIT.edu .....	269
3.1.73 XZ Utils -5.0.7 .....	269
3.1.74 Zlib - 1.2.3.....	270
3.1.75 Android - platform – dalvik - 2.1_r1.....	270
3.1.76 gpclib .....	270
3.1.77 Anti-Grain Geometry .....	270
3.1.78 Android - platform - frameworks - base.....	270
3.1.79 Android - platform - frameworks - base.....	271

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>

3.1.80 Boost C++ Libraries - boost .....	271
3.1.81 gecko-dev.....	272
3.1.82 libogg .....	272
3.1.83 Opus .....	272
3.1.84 Speex .....	272
3.1.85 wosh .....	272
3.1.86 jsoncpp .....	273
3.1.87 libxml2 .....	273
3.1.88 pugixml .....	273
3.1.89 SQLite .....	273
3.1.91 tiny-AES128-C .....	274
3.1.92 PVRTC Library.....	274
3.1.93 GSM 06.10 Lossy Speech Compression .....	274
3.1.94 Curl and Libcurl .....	275
3.1.95 aladdin-md5.....	275
3.1.96 OpenGL-Examples .....	275
3.1.97 SDL .....	276
3.1.96.1 SDL_gfx.....	276
3.1.96.2 zlib .....	276
3.1.98pkgconf .....	276
3.1.99 Code Project - C++ Memory Pool.....	276
3.1.100 OpenSSL .....	280
3.1.101 Alsa Libraries.....	280
3.1.102 GStreamer .....	280
3.1.103. Wapiti (Public Domain) .....	280
3.2 Licensing, copyright, acknowledgements, and modifications .....	281
3.2.1 X Windows.....	281
3.2.1.1 The Open Group.....	282
3.2.1.2 Digital Equipment Corporation.....	282
3.2.1.3 Digital Equipment Corporation - Panoramix components.....	283
3.2.2 Zlib.....	283
3.2.3 OpenSSL .....	284
3.2.3.1 The OpenSSL Project .....	284
3.2.3.2 Eric Young.....	286
3.2.3.3 RealVNC modifications to OpenSSL.....	287
3.2.4 SHA .....	287
3.2.4.1 Dr Brian Gladman .....	287
3.2.4.2 Cameron Rich .....	288
3.2.5 AES .....	289
3.2.6 EAX .....	290
3.2.7 libjpeg-turbo .....	290
3.2.8 expat.....	291
3.2.9 libpng.....	292
3.2.10 libzip .....	294
3.2.10.2 Free Software Foundation .....	295
3.2.10.4 RealVNC modifications to libzip .....	297
3.2.11 FreeType.....	297
3.2.11.1 Definitions .....	297
3.2.11.2 No Warranty .....	297
3.2.11.3 Redistribution.....	298

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>


3.2.11.4 Advertising .....	298
3.2.12 LodePNG .....	298
3.2.13 GCC libstdc++ .....	299
3.2.14 keySYMDEF .....	299
3.2.15 Endian.....	300
3.2.16 JRTPLIB .....	301
3.2.17 JThread.....	301
3.2.18 portaudio .....	302
3.2.19 libxml2.....	302
3.2.19.1 License.....	303
3.2.19.2 hash.c .....	303
3.2.19.3 list.c .....	303
3.2.19.4 trio.c, trio.h.....	304
3.2.19.5 RealVNC modifications to libxml2 .....	304
3.2.20.1 Copyright notice .....	304
3.2.20.2 License.....	305
3.2.21 LibTomCrypt .....	306
3.2.22 LibTomMath.....	306
3.2.23 Base64.java .....	306
3.2.24 Internal Android OS APIs .....	307
3.2.25 ExtractMpegFramesTest.java .....	307
3.2.26 libupnp (pupnp).....	307
3.2.27 libudev .....	309
3.2.28 WPA Supplicant .....	309
3.2.28.2 ath9k_faf1dc64_backport.patch.....	310
3.2.28.3 python-psutil_2.1.3.bb.....	311
3.2.29 Android Support Libraries .....	311
3.2.30 VNC Wi-Fi Display i.MX6 sample decoder .....	312
3.2.31 mxcfb.h.....	312
3.2.32 axTLS .....	312

 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>

## 1 List of used Open Source Components.


This document contains a list of open source software (OSS) components used within the product under the terms of the respective licenses. The source code corresponding to the open source components is also provided along with the product wherever mandated by the respective OSS license

<b>Name of OSS Component</b>	<b>Version of OS S Component</b>	<b>Name and Version of License (License text can be found in Appendix below)</b>	<b>Home page</b>	<b>More Information</b>
7 Zip - LZMA SDK	9.2	Public Domain	<a href="http://www.7-zip.org/sdk.html">http://www.7-zip.org/sdk.html</a>	Copyright (C) 1999-2005, 2016 Igor Pavlov Copyright (C) 2007-2009 Industrie Dial Face S.p.A.
ACL	2.2.52	GNU Lesser General Public License v2.1 or later LGPL-2.1+ GPL-2.0+ Public-domain FSF GPL V3 or later with autoconf exception FSF - Configure Script GNU Libtool GPL-2.0+ with exception	<a href="https://savannah.nongnu.org/projects/acl">https://savannah.nongnu.org/projects/acl</a>	(C) 1999, 2000 Andreas Gruenbacher Copyright (C) 1999,2000,2002,2003,2007,2011 Andreas Gruenbacher Copyright (C) 2001-2002 Silicon Graphics, Inc Copyright (C) SuSE Linux AG Copyright (c) 2007, 2008 Andreas Gruenbacher.  Copyright (c) 2003-2006 Silicon Graphics, Inc.  Copyright (C) 2012 Free Software Foundation, Inc.
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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>

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apitrace	7.1	MIT License	<a href="http://github.com/apitrace/apitrace/">http://github.com/apitrace/apitrace/</a>	Copyright 2009,2010,2013,2014,2015,2016 Google Inc Copyright 2012,2013 Intel Corporation Copyright 2010-2016 VMware, Inc Copyright 2011-2014 Jose Fonseca Copyright 2011 LunarG, Inc Copyright 2015 Alexander Trukhin Copyright 2013 Samsung Contributed by Eugene Velesevich Copyright 2006 Keith Packard and Carl Worth Copyright 2011 Zack Rusin, Copyright 2004 IBM Corporation




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<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>


APMD-Advanced Power Management Daemon	3.2.2	GNU General Public License v2.0 or later	<a href="http://manpages.ubuntu.com/manpages/xenial/man8/apmd.8.html">http://manpages.ubuntu.com/manpages/xenial/man8/apmd.8.html</a>	Copyright 1996, 1997 Rickard E. Faith
asn1c	0.9.27	BSD 2-clause "Simplified" License	<a href="http://github.com/vlm/asn1c/">http://github.com/vlm/asn1c/</a>	Copyright (c) 2004, 2006 Lev Walkin Copyright (c) 2003, 2004 X/IO Labs, xiolabs.com
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bison	3.0.4, 2.7.1, 3.0.2	GNU General Public License v3.0 or later with Bison exception 2.2	<a href="http://savannah.gnu.org/projects/bison/">http://savannah.gnu.org/projects/bison/</a>	Copyright (C) 1984, 1989-1990, 2000-2015 Free Software Foundation, Inc
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 <b>BOSCH</b>	<b>OSS Attribution Document</b>	<b>DATE</b>
<b>CM-CI1</b>	<b>Open Source Software Attributions for CM_CI1_RN_AIVI_Scope 3.x</b>	<b>25<sup>th</sup> –June-2020</b>


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dash	0.5.8	BSD-3 Clause Public-domain Makefile FSF license GPL-2.0+ GPL-1.0+ MIT-Matt Johnston and Mihnea Stoenescu GPL v3 or later with Bison exception FSF FSF - Configure Script GNU Libtool GPL-2.0+ with exception		Copyright (c) 2007 Herbert Xu ;herbert@gondor.apana.org.au Copyright (c) 1999 Main code: Adam Rogoyski;rogoyski@cs.utexas.edu; Etc: Dave Cinege ; dcinege@psychosis.com Copyright (c) 1995 The Regents of the University of California. Copyright (C) 2012 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium


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		X11 GNU Libtool GPL-2.0+ with exception LGPL-2.0		
libseccomp	2.3.1	GPL-2.0 LGPL-2.1 Public-domain Makefile FSF license GPL-2.0+ GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception X11 GNU Libtool GPL-2.0+ with exception MIT - Petri Lehtinen Curl Component license FSF LGPL-2.0+ FSF - Configure Script		Copyright: 2013 Vitaly Shukela ; vi0oss@gmail.com; Copyright: 2012 Paul Moore pmoore@redhat.com; Copyright: 2012 Kees Cook ;kees@debian.org; Copyright: 2006 Bob Jenkins ; bob_jenkins@burtleburtle.net; Copyright IBM Corp. 2012 Author: Corey Bryant ; coreyb@linux.vnet.ibm.com; Copyright 1992-2015 Free Software Foundation, Inc. Copyright (c) 2016 Helge Deller ;deller@gmx.de; Copyright (c) 2015 Mathias Krause ;minipli@googlemail.com; Copyright (c) 2015 Freescale ;bogdan.purcareata@freescale.com; Copyright (C) 2015 Canonical Ltd. Copyright (C) 1994 X Consortium
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libxau	1.0.8	<p>GPL-2.0</p> <p>X11</p> <p>Public-domain</p> <p>Makefile FSF license</p> <p>FSF</p> <p>GPL V3 or later with autoconf exception</p> <p>FSF - Configure Script</p> <p>GPL-2.0+</p> <p>GPL-2.0+ with autoconf exception</p> <p>GNU Libtool GPL-2.0+ with exception</p>	<p>Copyright © 2005 David Nusinow ;dnusinow@debian.org;</p> <p>Copyright © 2005 Daniel Stone ;daniel@fooishbar.org;</p> <p>Copyright © 2004 Scott James Remnant ;scott@netsplit.com;.</p> <p>Copyright © 2003 Keith Packard, Noah Levitt</p> <p>Copyright 2005 Red Hat,</p> <p>Copyright 1998-2005, 2007 Branden Robinson</p> <p>Copyright 1997 Mark Eichin</p> <p>Copyright 1996 Stephen Early</p> <p>Copyright 1992-2013 Free Software Foundation, Inc.</p> <p>Copyright 1988, 1998 The Open Group</p> <p>Copyright (c) 2010, Oracle and/or its affiliates.</p> <p>Copyright (c) 2009 Steven G. Johnson</p>

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(which makes passes at compilers) written  
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### **3.1.26 Libupnp (pupnp) - 1.6.19**

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### **3.1.27 Libxml2 - 2.9.1**

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### **3.1.28 OpenSSL - 0.9.8x**

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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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### **3.1.31 Android SupportLibraries - 19.0.0**

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### **3.1.33 axTLS - 1.1.8**

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### **3.1.34 Action - 0.1.1**

Home Page: [http://repo1.maven.org/maven2/com/ning/metrics.action/](http://repo1.maven.org/maven2/com/ning/metrics/action/)

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### **3.1.35 Android - platform - frameworks – base - 4.0.1\_r1**

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

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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**

Home Page: <http://github.com/jquery/jquery/>

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#### **3.1.43 jquery\_mobile\_rails - 1.3.2**

Home Page: [http://rubygems.org/gems/jquery\\_mobile\\_rails](http://rubygems.org/gems/jquery_mobile_rails)

License: MIT License

#### **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**

Home Page: <http://www.openssl.org/>

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#### **3.1.46 CRC32**

Home Page: <http://web.mit.edu/>

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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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### **3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers - 2.10 special edition**

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### **3.1.51 LZO real-time data compression library - 2.04**

Home Page <http://www.oberhumer.com/opensource/lzo/>

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### **3.1.52 UCL Data Compression Library - 1.03**

Home Page: <http://www.oberhumer.com/opensource/ucl/>

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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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Home Page: <http://sourceforge.net/projects/fuse/>

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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**

Home Page: <https://android.googlesource.com/platform/system/core/+master/libmincrypt>

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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**

Home Page: <http://www.igep.es/>

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Home Page: <http://sourceforge.net/projects/squashfs/>

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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**

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

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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**

Home Page: <http://www.7-zip.org/sdk.html>

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### **3.1.71 7-Zip - 7-Zip -3.11**

Home Page: <http://sourceforge.net/projects/sevenzzip/>

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### **3.1.72 CRC32 MIT.edu**

Home Page: <http://web.mit.edu/freebsd/head/sys/libkern/>

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### **3.1.73 XZ Utils -5.0.7**

Home Page: <http://tukaani.org/xz/>

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### 3.1.74 Zlib - 1.2.3

Home Page <http://www.zlib.net>

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### 3.1.75 Android - platform – dalvik - 2.1\_r1

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

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### 3.1.76 gpclib

<http://github.com/rdpeng/gpclib/>

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Version Unspecified

<http://sourceforge.net/projects/vector-agg/>

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### 3.1.78 Android - platform - frameworks - base

Version android-7.0.0\_r1

<https://android.googlesource.com/platform/frameworks/base>

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### 3.1.79 Android - platform - frameworks - base

Version Unspecified

<https://android.googlesource.com/platform/frameworks/base>

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### 3.1.80 Boost C++ Libraries - boost

Version Unspecified

<http://boost.org/>

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<http://github.com/mozilla/gecko-dev/>

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<http://xiph.org/ogg/>

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### **3.1.83 Opus**

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<http://opus-codec.org>

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### **3.1.84 Speex**

1.2beta2 dev

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### **3.1.85 wosh**

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### **3.1.86 jsoncpp**

Version

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<http://sourceforge.net/projects/jsoncpp/>

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### **3.1.88 pugixml**

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<https://stjarnhimlen.se/comp/sunriset.c>

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### **3.1.91 tiny-AES128-C**

Version master-20141218

<http://github.com/kokke/tiny-AES128-C/>

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### **3.1.92 PVRTC Library**

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<https://www.imgtec.com/developers/powervr-sdk-tools/installers/>

copyright unknown

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### **3.1.93 GSM 06.10 Lossy Speech Compression**

Version Unspecified

<http://kbs.cs.tu-berlin.de/~jutta/toast.html>

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<https://github.com/timothytylee/libgsm/blob/master/COPYRIGHT>

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Berlin, 28.11.1994 Jutta Degener Carsten Bormann

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<http://github.com/curl/curl/>

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### **3.1.95 aladdin-md5**

Version Unspecified

<https://opensource.apple.com/source/cups/cups-30/cups/md5.h.auto.html>

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### **3.1.96 OpenGL-Examples**

Version master-20141123

<http://github.com/progschj/OpenGL-Examples/>

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### **3.1.97 SDL**

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Version 1.2.11 <http://www.zlib.net/>

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<http://github.com/pkgconf/pkgconf/>

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#### **3.1.99 Code Project - C++ Memory Pool**

Version 1.0

<http://www.codeproject.com/KB/cpp/MemoryPool.aspx>

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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RealVNC has made the following modifications to OpenSSL 0.9.8zf:

- The hard-coding of config options in opensslconf.h.
- The addition of compile-time
- 
- 
- s to remove dependencies of the C stio library and on Win32 UI.
- The addition of compile-time checks to remove filename strings from release binaries.

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```
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

The following copyrights apply to libzip.

#### 3.2.10.1 Dieter Baron and Thomas Klausner (see the files zip.h and zipint.h):

Copyright (C) 1999-2008 Dieter Baron and Thomas Klausner

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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#### **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.
- On Windows, in mkstemp.c, pid\_t and S\_ISDIR have been defined, and io.h and process.h included.

#### **3.2.11 FreeType**

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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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#### **3.2.19.5 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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Author: Thomas Bernard

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- 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

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>

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@author Robert Harder

@author rob@iharder.net

@version 2.3.5.2.

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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/cgit/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.

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