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<b>CM-CI1</b>	<b>Open Source Software Attributions for _Scope 3.x</b>	<b>30<sup>th</sup> –June-2020</b>

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## 1 List of used Open Source Components.

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<b>Name of OSS Component</b>	<b>Version of OSS 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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Alsa Utils	1.0.29	GNU General Public License v2.0 or later	<a href="https://www.alsa-project.org/wiki/ALSA_Library_API">https://www.alsa-project.org/wiki/ALSA_Library_API</a>	Copyright (c) by Abramo Bagnara Copyright (c)1999-2000,2008,2010 by Jaroslav Kysela Copyright (C) 2003 Greg Kroah-Hartman Copyright (C) 2004-2006 Kay Sievers Copyright (c)2004-2006 Clemens Ladisch Copyright (c) 1998,1999 Tim Janik Copyright (c) 1874 Lewis Carroll Copyright (C) 2008-2010 SlimLogic Ltd Copyright (C) 1999-2000,2003 by Takashi Iwai Copyright (C) 2000-2004 James Courtier-Dutton Copyright (C) 2005 Nathan Hurst
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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 Velevich Copyright 2006 Keith Packard and Carl Worth Copyright 2011 Zack Rusin, Copyright 2004 IBM Corporation



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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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Lz4 Command Line Interface	r128	GNU General Public License v2.0 or later	<a href="https://github.com/lz4/lz4/tree/dev/programs">https://github.com/lz4/lz4/tree/dev/programs</a>	Copyright:Copyright (C) Yann Collet 2011-2015.;
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py2cairo	1.10.0	GNU Lesser General Public License v2.1 or later	<a href="http://cairographics.org/pycairo/">http://cairographics.org/pycairo/</a>	This component is a part of Cairo Vector Graphics Library which is already identified with a version 1.12.14. Hence this is separately identified as py2cairo with version 1.10.0.

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base-passwd	3.5.44	GPL-2.0 GPL-2.0+ Public-domain		copyright 2002, 2003 Colin Watson. copyright 1999 Wichert Akkerman Copyright: Copyright 2001, 2002 Joey Hess

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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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dlt-daemon	2.16	MPL-2.0 MIT FSF without royalty	copyright Copyright © 2017 Advanced Driver Information Technology. Copyright 2010 Lennart Poettering Copyright (C) 2011-2015, BMW AG Copyright (C) 2011-2012, BMW AG – Alexander Wenzel
dpkg	1.18	GPL-2.0+ Public-domain GPL-2.0 Curl Component license GNU MP Library file license MIT-Matt Johnston and Mihnea Stoenescu ISC MIT - Eric Haszlkiewicz MIT- Matt Johnston Zlib license FSF GPL V3 or later with autoconf exception X11 GNU Libtool GPL-2.0+ with exception GPL-2.0+ with autoconf exception GNU gettext support file license LGPL-2.0+ Makefile FSF license FSF - Configure Script	© 2011 Kees Cook © 2010-2011 Raphaël Hertzog © 2007, 2008 Frank Lichtenheld © 2007 Guillem Jover" © 2005 Scott James Remnant" © 2001 Wichert Akkerman" © 2001 Joey Hess" © 1997,1998 Charles Briscoe-Smith med "flera." © 1996 Kim-Minh Kaplan" © 1995, 1996 Erick Branderhorst" Copyright © Colin Watson ; Copyright © 2015 Guillem Jover Copyright © 2014 Nir Soffer Copyright © 2011 Matt Kraai &lt; kraai@ftbfs.org&gt;; Copyright © 2011 Linaro Limited Copyright © 2010 Oxan van Leeuwen Copyright © 2009 Romain Francoise Copyright © 2009 Chris Coulson Copyright © 2009 Canonical Ltd. Copyright © 2008 Zack Weinberg Copyright © 2008 Samuel Thibault Copyright © 2008 Pierre Habouzit Copyright © 2008 James Westby Copyright © 2008 Frank Lichtenheld Copyright © 2008 Andreas Pahlsson Copyright © 2007-2015 Guillem Jover Copyright © 2007, 2008 Tollef Fog Heen Copyright © 2007 Nicolas François Copyright © 2007 Don Armstrong Copyright © 2007 Colin Watson

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findutils	4.2.3 1	GPL-2.0+ GNU Copyright statement -Verbatim copies FSF GPL-2.0 GPL v3 or later with Bison exception Curl Component license LGPL-2.0+ GNU gettext support file license Public domain GPL V3 or later with autoconf exception Public-domain LGPL-2.1 Makefile FSF license FSF - Configure Script GPL-2.0+ with autoconf exception X11	Copyright © 2006 Free Software Foundation, Inc.
glib2.0	2.50. 2	LGPL-2.0+ Red Hat, Inc License BSD-3 Clause LGPL-2.1+ AFL-2.0 FSF MIT - Dmitry Matveev Antoine Jacoutot BSD-3 University of Cambridge GPL-2.0+ LGPL-2.0+ GAsyncQueue license LGPL-2.1+ BSD-3 PCRE License Valgrind License GBSearchArray License GPL-2.0+ with autoconf exception GNU NLS utilities package License LGPL-2.1+ MIT - Petri Lehtinen FSF GNU MP Library file license GPL V3 or later with autoconf exception FSF - Configure Script Public-domain X11 GNU Libtool GPL-2.0+ with exception	Copyright © 2015 Patrick Griffis Copyright © 2015 Collabora, Ltd. Copyright © 2015 Canonical Limited Copyright © 2014 NICE s.r.l. Copyright © 2013 Lars Uebernickel Copyright © 2012-2015 Dan Nicholson Copyright © 2012,2013 Colin Walters Copyright © 2011 William Hua Copyright © 2011 Ryan Lortie Copyright © 2011 Red Hat, Inc Copyright © 2011 Nokia Corporation Copyright © 2010 Novell, Inc. Copyright © 2010 Codethink Limited Copyright © 2010 Christian Persch Copyright © 2009-10 Sam Thursfield Copyright © 2006 Ubuntu Georgian Translators. Copyright © 2004 Scott James Remnant Copyright © 2002-2016 the glib authors. Copyright © 2001-2016 Free Software Foundation, Inc. Copyright © 1998-2011 Tim Janik, Red Hat, Inc. Copyright © 1995-2011 Peter Mattis, Spencer Kimball, Josh MacDonald, Sebastian Wilhelmi and others. Copyright 2016 Endless Mobile, Inc.

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hostname	3.16	GPL-2.0+	.	Copyright (C) 2009 Michael Meskes meskes@debian.org; Copyright (C) 2004-2005 Graham Wilson graham@debian.org; Copyright (C) 1997 Peter Tobias ;tobias@et-inf.fho-emden.de; Copyright (C) 1997 Bernd Eckenfels Copyright (C) 1996 Free Software Foundation, Inc
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kmod	22	LGPL-2.1+ GPL-2.0+ FSF - Configure Script LGPL-2.0+ Public-domain Curl Component license GNU MP Library file license		Copyright © 2007-2010 Josh Triplett; josh@joshtriplett.org Copyright 2014, Marco d'Itri. Copyright 2010 Lennart Poettering Copyright 2006-2010, Jon Masters, Red Hat, Inc. Copyright 2004, Rusty Russell, IBM Corporation. Copyright (c) 2006-2008 xine project Copyright (c) 2006-2008 Diego Pettenò ;flameeyes@gmail.com; Copyright (C) 2015 Intel Corporation. Copyright (C) 2013 Tom Gundersen ; teg@jklm.no; Copyright (C) 2013 Michal Marek, SUSE Copyright (C) 2012-2013 ProFUSION embedded systems Copyright (C) 2012 W. Trevor King ; wking@tremily.us; Copyright (C) 2012 Red Hat, Inc. W. Trevor King Copyright (C) 2012 Pedro Pedruzzi Copyright (C) 2008 Alan Jenkins ;alan-jenkins@tuffmail.co.uk;.

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libcap-ng	0.7.7	LGPL-2.1+ GPL-2.0+ with autoconf exception GPL-2.0+ Public-domain Makefile FSF license FSF GPL V3 or later with autoconf exception FSF - Configure Script X11 GNU Libtool GPL-2.0+ with exception		Copyright 2015 Red Hat Inc., Durham, North Carolina. Copyright 2009-2015 Steve Grubb ;sgrub@redhat.com; Copyright 1992-2014 Free Software Foundation, Inc. Copyright (C) 1994 X Consortium
libcap2	2.24	BSD-3 Clause LGPL-2.0+ GPL-2.0+		Dual License - BSD - 3 Clause & GPL-2.0  Copyright: 2014, Daniel Baumann ; mail@daniel-baumann.ch; opyright: 2010 Serge Hallyn ; serue@us.ibm.com; Copyright: 2006, Matt Kern ;matt.kern@undue.org; Copyright: 1998 Finn Arne Gangstad ;finnag@guardian.no; opyright: 1997-2014 Andrew G. Morgan ;morgan@linux.kernel.o  Copyright (C) 1997 Aleph One Copyright (C) 1989, 1991 Free Software Foundation,
libffi	3.2.1	MIT MIT - Petri Lehtinen MIT - Eric Haszlakewicz GPL-2.0+ Public-domain GPL V3 or later with autoconf exception GPL-2.0+ with autoconf exception FSF GNU MP Library file license FSF - Configure Script X11 GNU Libtool GPL-2.0+ with exception GPL V3 with Tex exception		Copyright @copyright{} 2008, 2010, 2011 Red Hat, Inc. Copyright 1992-2013 Free Software Foundation, Inc. Copyright (c) 2014 Sebastian Macke ;sebastian@macke.de; Copyright (c) 2014 Anthony Green Copyright (c) 2013 The Written Word Inc. Copyright (c) 2013 Tensilica, Inc. Target configuration macros for XTENSA. Copyright (c) 2013 Synopsys, Inc. (www.synopsys.com) Copyright (c) 2013 Miodrag Vallat. ;miod@openbsd.org; Copyright (c) 2013 Mentor Graphics. Copyright (c) 2012, 2013 Xilinx, Inc Copyright (c) 2012 Tiler Corp. Copyright (c) 2012 Thorsten Glaser Copyright (c) 2012 Alexandre K. I. Copyright (c) 2012 Alan Hourihane Copyright (c) 2011 Timothy Wall

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libgpg-error	1.21	LGPL-2.1+ GPL-2.0+ FSF Public-domain GNU gettext support file license GPL-2.0 BSD-3-Clause FSF - Configure Script GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception X11		Copyright: 2001-2004, 2010, 2012-2014 , g10 Code GmbH Copyright © 2009 Free Software Foundation, Copyright (C) 2014 Jedi Lin Copyright (C) 1995-1997, 2000-2007, 2009-2010 by Ulrich Drepper Copyright (C) 1994 X Consortium



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		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	GPL-2.0 X11 Public-domain Makefile FSF license FSF GPL V3 or later with autoconf exception FSF - Configure Script GPL-2.0+ GPL-2.0+ with autoconf exception GNU Libtool GPL-2.0+ with exception	Copyright © 2005 David Nusinow ;dnusinow@debian.org; Copyright © 2005 Daniel Stone ;daniel@fooishbar.org; Copyright © 2004 Scott James Remnant ;scott@netsplit.com;. Copyright © 2003 Keith Packard, Noah Levitt Copyright 2005 Red Hat, Copyright 1998-2005, 2007 Branden Robinson Copyright 1997 Mark Eichin Copyright 1996 Stephen Early Copyright 1992-2013 Free Software Foundation, Inc. Copyright 1988, 1998 The Open Group Copyright (c) 2010, Oracle and/or its affiliates. Copyright (c) 2009 Steven G. Johnson ;stevenj@alum.mit.edu;	

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Version 3, 29 June 2007

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the library `Frob' (a library for tweaking knobs) written  
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Glenn Randers-Pehrson

randeg@alum.rpi.edu

April 15, 2002

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

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Drools:: Scorecards - 5.5.0.Final

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

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

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### **3.1.40 Stan-for-Android - 0.1.0**

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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**

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### **3.1.83 Opus**

Unspecified

<http://opus-codec.org>

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### **3.1.84 Speex**

1.2beta2 dev

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### **3.1.85 wosh**

Unspecified

<http://code.google.com/p/wosh/>

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### **3.1.86 jsoncpp**

Version

Unspecified

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

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Version

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### **3.1.88 pugixml**

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### **3.1.90 Sunrise/set calculator**

Version Unspecified

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

Public Domain

### **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**

Version Unspecified

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

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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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Version Unspecified

<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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Version 2.0

<http://www.libsdl.org/index.php>

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Version Unspecified

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

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#### **3.1.96.2 zlib**

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Version Unspecified

<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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Acknowledgements:

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  
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users.sourceforge.net  
September 10, 2009

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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.

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### **3.2.19.2 hash.c**

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#### **3.2.19.4 trio.c, trio.h**

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#### **3.2.19.5 RealVNC modifications to libxml2**

This is libxml2-2.9.1. Some small changes have been made to allow it to build for QNX and Android.

#### **3.2.20 miniupnp**

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Project: miniupnp

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

Author: Thomas Bernard

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### **3.2.20.3 RealVNC modifications to**

**miniupnpc** The following modifications

have been made:

- Requests have been cancelled.

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- 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>

### **3.2.23 Base64.java**

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Please visit <http://iharder.net/base64> periodically to check for updates or to contribute improvements.

@author Robert Harder

@author rob@iharder.net

@version 2.3.5.2.

### **3.2.24 Internal Android OS APIs**

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### **3.2.25 ExtractMpegFramesTest.java**

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### **3.2.26 libupnp (pupnp)**

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### **3.2.27 libudev**

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### **3.2.28 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**

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### **3.2.32 RealVNC modifications to axTLS**

Some unwanted type and function definitions have been removed.

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