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XC_CI	XC_CI1_RN_AIVI_Scope 3.x	16 <sup>th</sup> Nov 2021	

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## **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

S L N o	Name of OSS Component	Versi on of OSS Com pone nt	Name and Versio n of Licens e (Licen se text can be found in Appen dix below )	Home Page	More Information
1	ACL	2.2.5 2	GNU Lesser Gener al Public Licens e v2.1 or later	https://savannah.nongnu.org/p rojects/acl	Copyright (C) 1999,2000,2002,2003,2007, 2009,2011 Andreas Gruenbacher <a.gruenbache r@computer.org&gt;, Copyright (C) 2001-2002 Silicon Graphics, Inc. All Rights Reserved. Copyright (c) 2002 Silicon Graphics, Inc. All Rights Reserved. Copyright (C) SuSE Linux AG. Copyright (C) 1999-2002 Andreas Gruenbacher, <a.gruenbacher@bestbits.at &gt; Copyright (C) 1999-2000 Andreas Gruenbacher, <a.gruenbacher@bestbits.at &gt;.;</a.gruenbacher@bestbits.at </a.gruenbacher@bestbits.at </a.gruenbache 



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)	KC_CI		XC_CI1	_RN_AIVI_Scope 3.x	16 <sup>th</sup> Nov 2021	
2	Alsa Libraries	1.1.8 , 1.0.2 9	GNU Lesser Gener al Public Licens e v2.1 or later	http://www.alsa-project.org/	Copyright (c) 1998,2000,2001,2003,2004, 2005,2006,2010 by Jaroslav Kysela <perex@perex.cz>, Copyright (C) 2010 Red Hat Inc. Copyright (c) 2000,2001,2003 by Abramo Bagnara <abramo@alsa- project.org&gt;, Copyright (c) 1998,99,2000,2003,2004,20 05,2007 by Takashi Iwai <tiwai@suse.de>, Copyright (C) 1992 by Stichting Mathematisch, Copyright (C) 2008-2010 SlimLogic Ltd, Copyright (c) 2013 by ADIT GmbH, Copyright (c) 2000 by Abramo Bagnara <abramo@alsa- project.org&gt;, Copyright (c) 1999 by Uros Bizjak <uros@kss-loka.si>, Copyright (c) Jaroslav Kysela <perex@perex.cz>.;</perex@perex.cz></uros@kss-loka.si></abramo@alsa- </tiwai@suse.de></abramo@alsa- </perex@perex.cz>	
3	Alsa Plugins	1.1.8	GNU Lesser Gener al Public Licens e v2.1 or later	ftp://ftp.alsa- project.org/pub/plugins/	Copyright (c) 2008 by Sjoerd Simons <sjoerd@luon.net>, Copyright (c) 2006 by Pierre Ossman <ossman@cendio.se>.;</ossman@cendio.se></sjoerd@luon.net>	
4	Alsa Tools	1.1.5	GNU Gener al Public Licens e v2.0 or later	http://www.alsa-project.org/	Copyright (C) 2000 by Daniel Bertrand, Copyright (c) 2008 Takashi Iwai <tiwai@suse.de>, Copyright (c) 2014 David Henningsson, Canonical Ltd. <david.henningsson@canon ical.com&gt;, Copyright (c) 2003 by Digigram <alsa@digigram.com>, Page 9</alsa@digigram.com></david.henningsson@canon </tiwai@suse.de>	



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					Copyright (c) 2000 by Uros Bizjak <uros@kss-loka.si>, Copyright (c) 2003 by Chris Rankin, Copyright (c) 2003 by Karsten Wiese <annabellesgarden@yahoo. de&gt;, Copyright (c) 2004- 2007 by Rui Nuno Capela <rncbc@rncbc.org>, Copyright (c) 2009-2010 Clemens Ladisch.; Approval Required.</rncbc@rncbc.org></annabellesgarden@yahoo. </uros@kss-loka.si>
5	Alsa Utils	1.1.8	GNU Gener al Public Licens e v2.0 or later	http://www.alsa-project.org/	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.;
6	AppArmor Userspace Utilities	2.11. 0	GNU Gener al Public Licens e v2.0 only	http://wiki.apparmor.net/index .php/Main_Page	Copyright (C) 2013 Kshitij Gupta <kgupta8592@gmail.com>, Copyright (C) 2011-2013 Canonical Ltd., Copyright (C) 2015 Christian Boltz <apparmor@cboltz.de>, Copyright (C) 2015 Christian Boltz <apparmor@cboltz.de>, Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 * NOVELL;</apparmor@cboltz.de></apparmor@cboltz.de></kgupta8592@gmail.com>



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7	Atomic_ops	7.4.0	MIT Licens e	http://www.hpl.hp.com/resear ch/linux/atomic_ops/index.php 4	Copyright (c) 1991-1994 by Xerox Corporation. All rights reserved. Copyright (c) 1996-1999 by Silicon Graphics. All rights reserved. Copyright (c) 1999-2003 by Hewlett- Packard Company. All rights reserved.;	
8	Attr	2.4.4 7	GNU Gener al Public Licens e v2.0 or later	http://savannah.nongnu.org/pr ojects/attr	Copyright (C) 2000,2001,2002,2003,2004, 2005 Silicon Graphics, Inc. , Copyright (C) 2002,2003,2006,2007,2009 Andreas Gruenbacher <agruen@suse.de>, SuSE Linux AG.;</agruen@suse.de>	
9	Audit	2.7.6	GNU Gener al Public Licens e v2.0 or later	http://tracker.debian.org/pkg/a udit	Copyright (c) 2007,2010,2013 Red Hat Inc., Durham, North Carolina., Copyright (c) 2011 IBM Corp. * All Rights Reserved, Copyright (©) 2011 Emanuele Giaquinta, Copyright (c) 2007,2008,2009,2010,2011, 2012,2013 Marc Alexander Lehmann ;	
1 0	Bash	3.2.5 7	GNU Gener al Public Licens e v2.0 or later	http://www.gnu.org/software/ bash/	Copyright (C) 1987,1989,1991,1993-2007 Free Software Foundation, Inc;	
1	BlueZ	5.48	GNU Gener al Public Licens e v2.0 or	http://www.bluez.org/	Copyright (C) 2006-2010 Nokia Corporation, Copyright (C) 2004-2010 Marcel Holtmann <marcel@holtmann.org>.;</marcel@holtmann.org>	



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XC_CI	XC_CI1_RN_AIVI_Scope 3.x         later         1.67.         Boost         1.57.         Boost         1.57.         Boost         1.10         http://sourceforge.net/projects         // boost/	16 <sup>th</sup> Nov 2021 Copyright (c) 2003-2015 Christopher M. Kohlhoff (chris at kohlhoff dot com), Copyright (C) 2016-2017 Bayerische Motoren Werke Aktiengesellschaft (BMW AG), Copyright (c) 2001- 2012 Hartmut Kaiser, Copyright (c) 2001 Daniel C. Nuffer, Copyright Beman Dawes 1994-2006, 2011, Copyright (C) 2007-8 Anthony Williams, Copyright 2011-2012 Vicente J. Botet Escriba, Copyright 2013 Andrey Semashev, Copyright Douglas Gregor 2001-2004, Copyright 2002 Robert Ramey, Copyright (c) 1998- 2004 John Maddock, Copyright Jens Maurer 2000, Copyright Steven Watanabe 2010-2011, Copyright Vladimir Prus 2002-2004, Copyright Sascha Ochsenknecht 2009, Copyright Bertolt Mildner 2004, Copyright John Maddock 2008, Copyright (c) 2009-2011 Artyom Beilis (Tonkikh), Copyright Craig Henderson 2002, Copyright



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1 6 6	WavPack Lossless Audio Compresso	4.60. 1 r	BSD 3- Clause "New" or "Revis ed" Licens e	http://sourceforge.net/projects /wavpack/	Copyright (c) 1998 - 2006 Conifer Software,(c) 2006 Joachim Henke;
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2 2 4 2 1ibp11 2	0.4.1 0 0.4.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	https://github.com/OpenSC/lib p11/tree/libp11-0.4.10	Copyright (C) 2005 Olaf Kirch <okir@lst.de> Copyright (C) 2016 Michał Trojnara <michal.trojnara@stunnel. org&gt; Copyright (C) 2010- 2012 Free Software Foundation, Inc. Copyright (C) 2014 Red Hat Copyright (C) 2014 Red Hat Copyright (C) 2018 Michał Trojnara <michal.trojnara@stunnel. org&gt; Copyright (C) 2005 Olaf Kirch <okir@lst.de> Copyright (c) 2001 Markus Friedl Copyright (c) 2002 Juha Yrjölä Copyright (c) 2002 Olaf Kirch Copyright (c) 2003 Kevin Stefanik Copyright (c) 2016-2018 Michał Trojnara <michal.trojnara@stunnel. org&gt; Copyright (C) 1999- 2001 The OpenSSL Project Authors. All Rights Reserved. Copyright (C) 1995-2017 The OpenSSL Project Authors. All Rights Reserved. Copyright (c) 2003 Kevin Stefanik (kstef@mtppi.org) Copyright (c) 2016-2018 Michał Trojnara <michal.trojnara@stunnel. org&gt; Copyright (C) 1995- 2017 The OpenSSL Project Authors. All Rights Reserved. Copyright (C) 2003 Kevin Stefanik (kstef@mtppi.org) Copyright (c) 2016-2018 Michał Trojnara <michal.trojnara@stunnel. org&gt; Copyright (C) 1995- 2017 The OpenSSL Project Authors. All Rights Reserved. Copyright (C) 1995- 2017 The OpenSSL Project Authors. All Rights Reserved. Copyright (C) 2017 Douglas E. Engert <deengert@gmail.com></deengert@gmail.com></michal.trojnara@stunnel. </michal.trojnara@stunnel. </michal.trojnara@stunnel. </okir@lst.de></michal.trojnara@stunnel. </michal.trojnara@stunnel. </okir@lst.de>



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2 7 7	mtdev	1.1.5	MIT Licens e	http://github.com/rydberg/mtd ev/	Copyright (C) 2010 Henrik Rydberg <rydberg@euromail.se>, Copyright (C) 2010 Canonical Ltd, Copyright (C) 2004, Markus Buehren;</rydberg@euromail.se>
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3 0 trace-cmd 3	2.7- r0 Gener al Public Licens e v2.0 only	http://github.com/rostedt/trac e-cmd/	Weisbecker, Copyright (C) 2008, 2009, 2010, 2013 Red Hat Inc, Steven Rostedt <srostedt@redhat.com> Copyright (C) 2009, Steven Rostedt. Copyright (C) 2009</srostedt@redhat.com>



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3 0 8	v4utils_LGF 2.1	PL 1.15. 0	GNU Lesser Gener al Public Licens e v2.1 or later	http://git.linuxtv.org/v4l- utils.git	Copyright (C) 2006 Mauro Carvalho Chehab <mchehab@infradead.org>. Copyright (C) 2010-2014 Ideas on board SPRL. Copyright (C) 2012 Cisco Systems, Inc. and/or its affiliates. All rights reserved.;</mchehab@infradead.org>
3 0 9	v4utils_gpl 0	2. 1.15. 0	GNU Gener al Public Licens e v2.0 or later	http://git.linuxtv.org/v4l- utils.git	Copyright (C) 2007 Mauro Carvalho Chehab <mchehab@infradead.org>, Copyright (c) 2011-2012 - Mauro Carvalho Chehab, Copyright (C) 2004,2008,2007,2010,2011, 2012 Hans Verkuil <hverkuil@xs4all.nl>, Copyright (C) 2016 Cisco Systems, Inc. and/or its affiliates. All rights reserved. Copyright (C) 2003-2004 Kevin Thayer <nufan_wfk at<br="">yahoo dot com&gt;, Copyright (C) 2014 Cisco Systems, Inc. and/or its affiliates. All rights reserved, Copyright (C) 2011 Red Hat, Inc. Copyright (C) 2016 Sean Young <sean@mess.org>.;</sean@mess.org></nufan_wfk></hverkuil@xs4all.nl></mchehab@infradead.org>
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The former contains code derived from the library, while the latter only works together with the library.

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That's all there is to it!

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## 2.21 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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Home Page: http://github.com/geraldonetto/bsdiff/ Home Page: http://www.daemonology.net/bsdiff/ License: BSDiff license

# 3.1.64 GNU C Library – glibc - 2.2.4

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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

Home Page: http://code.google.com/p/libdivsufsort/ License: MIT License

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

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# 3.1.70 7 Zip - LZMA SDK - 9.2

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# 3.1.71 7-Zip - 7-Zip -3.11

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Home Page: http://web.mit.edu/freebsd/head/sys/libkern/ License: Public Domain

# 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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# 3.1.77 Anti-Grain Geometry

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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### 3.1.81 gecko-dev

Unspecified

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

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### 3.1.82 libogg

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http://xiph.org/ogg/

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http://opus-codec.org

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## 3.1.84 Speex

1.2beta2 dev

http://www.speex.org/

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## 3.1.85 wosh

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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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# 3.1.88 pugixml

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## 3.1.89 SQLite

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# 3.1.90 Sunrise/set calculator

Version Unspecified

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

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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# 3.1.94 Curl and Libcurl

Version Unspecified



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http://github.com/curl/curl/

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curl License

# 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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# 3.1.96.1 SDL\_gfx

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# 3.1.96.2 zlib

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## 3.1.98pkgconf

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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RealVNC has made the following modifications to OpenSSL 0.9.8zf:

• The hard-coding of config options in opensslconf.h.



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- 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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- 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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# 3.2.13 GCC libstdc++

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# 3.2.14 keysymdef

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# 3.2.17 JThread

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# 3.2.18 portaudio

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# 3.2.19 libxml2

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## 3.2.19.2 hash.c

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

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#### 3.2.19.5 RealVNC modifications to libxml2

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

Android.

## 3.2.20 miniupnpc

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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.
- 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://libromcrypt.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.



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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 <a href="http://iharder.net/base64">http://iharder.net/base64</a> 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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### **3.2.28.1** 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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Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
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dbus-native	0.2.0	MIT	https://github.com/sidorares/node- dbus
dbus-proxy	0.0.0- unreleasable	NA	NA
abstract-socket	1.1.0	MIT	https://github.com/saghul/node- abstractsocket
bindings	1.2.1	MIT	https://github.com/TooTallNate/node- bindings
nan	2.4.0	MIT	https://github.com/nodejs/nan#readm e
1to2	1.0.0	MIT	NA
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sax	1.2.1	ISC	https://github.com/isaacs/sax- js#readme
iconv-lite	0.4.15	MIT	https://github.com/ashtuchkin/iconv- lite
jbinary	2.1.2	MIT	https://github.com/jDataView/jBinary
es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	https://github.com/jakearchibald/ES6- Promises
jdataview	2.5.0	WTFPL	http://jDataView.github.io/



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request	2.53.0	Apache-2.0	https://git	hub.com/request/request
aws-sign2	0.5.0	NA	https://git	hub.com/mikeal/aws-sign
bl	0.9.4	MIT	https://git	hub.com/rvagg/bl
readable-stream	1.0.33	MIT	https://git stream	hub.com/isaacs/readable-
core-util-is	1.0.1	MIT	https://git	hub.com/isaacs/core-util-is
inherits	2.0.1	ISC	https://git	hub.com/isaacs/inherits
isarray	0.0.1	MIT	https://git y	hub.com/juliangruber/isarra
string_decoder	0.10.31	MIT	https://git der	hub.com/rvagg/string_deco
caseless	0.9.0	BSD	https://git	hub.com/mikeal/caseless
combined- stream	0.0.7	NA	https://git combined-	hub.com/felixge/node- -stream
delayed-stream	0.0.5	NA	https://git delayed-st	hub.com/felixge/node- ream
forever-agent	0.5.2	NA	https://git agent	hub.com/mikeal/forever-
form-data	0.2.0	MIT	-	hub.com/felixge/node-form-
async	0.9.0	MIT	https://git	hub.com/caolan/async
hawk	NA	./LICENSE	NA	
hawk	2.3.1	BSD	https://git	hub.com/hueniverse/hawk
boom	2.6.1	BSD	https://git	hub.com/hapijs/boom
cryptiles	2.0.4	BSD	https://git	hub.com/hapijs/cryptiles
hoek	2.11.0	BSD	https://git	hub.com/hapijs/hoek
sntp	1.0.9	BSD	https://git	hub.com/hueniverse/sntp
http-signature	0.10.1	MIT	https://git signature/	hub.com/joyent/node-http-
asn1	0.1.11	NA	NA	
assert-plus	0.1.5	NA	https://git assert-plus	hub.com/mcavage/node-
ctype	0.5.3	NA	https://git ctype	hub.com/rmustacc/node-
isstream	0.1.1	MIT		hub.com/rvagg/isstream
json-stringify- safe	5.0.0	BSD		hub.com/isaacs/json-
mime-types	2.0.9	MIT		hub.com/jshttp/mime-types
mime-db	1.7.0	MIT		hub.com/jshttp/mime-db
node-uuid	1.4.2	MIT		hub.com/broofa/node-uuid
oauth-sign	0.6.0	NA		hub.com/mikeal/oauth-sign
qs	2.3.3	BSD		hub.com/hapijs/qs
stringstream	0.0.4	MIT		hub.com/mhart/StringStrea
tough-cookie	0.12.1	MIT		hub.com/goinstant/tough-



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			cookie
punycode	1.3.2	MIT	https://mths.be/punycode
tunnel-agent	0.4.0	NA	https://github.com/mikeal/tunnel- agent
mkdirp	0.5.0	MIT	https://github.com/substack/node- mkdirp
minimist	0.0.8	MIT	https://github.com/substack/minimist
xml2js	0.4.5	MIT	https://github.com/Leonidas-from- XIV/node-xml2js
sax	0.6.1	BSD	https://github.com/isaacs/sax-js
xmlbuilder	2.5.1	MIT	http://github.com/oozcitak/xmlbuilder -js
lodash	3.1.0	MIT	https://lodash.com/

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