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<b>XC-CI1</b>	<b>XC_CI1_RN_AIVI_Scope 3.x</b>	<b>12<sup>th</sup> Nov. 2021</b>


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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	9.20	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	<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.
AES - Advanced Encryption Standard	1	zlib License	<a href="http://www.lomont.org/Software/Misc/AES/AES.php">http://www.lomont.org/Software/Misc/AES/AES.php</a>	Copyright (C) 2000-2005 Chris Lomont


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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
Android - platform - bootable - recovery	Unspecified	Apache License 2.0	<a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>	Copyright: 2007 The Android Open Source Project
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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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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apertis-customizations	1.17 12	MPL-2.0 GPL-2.0 GPL-2.0+ LGPL-2.1+	© 2015-2017 Collabora Ltd. © 2009-2011 Canonical Ltd. © 2002-2009 Novell/SUSE
audit	2.4.5	LGPL-2.1+ FSF GPL-2.0+ with autoconf exception GPL V3 or later with autoconf exception FSF - Configure Script Public-domain X11 GNU Libtool GPL-2.0+ with exception LGPL-2.0+ Free Software License - Paolo Bonzini GPL-2.0+ LGPL-2.1 BSD-2 Clause	copyright 2007-2011, Philipp Matthias Hahn <pmhahn@debian.org> Copyright: 2005-2008 Steve Grubb, sgrubb@redhat.com Copyright 2015 Red Hat Inc., Durham, North Carolina. Copyright (©) 2009-2015 Marc Alexander Lehmann Copyright (c) 2011 IBM Corp. Copyright (c) 2008 Paolo Bonzini Copyright (C) 2003-2014 Free Software Foundation, Inc.  Dual License - GPL-2.0+ & BSD - 2 Clause
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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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the library `Frob' (a library for tweaking knobs) written

by James Random Hacker.

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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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### **3.1.37 Android SDK Support Libraries – 19,23.1.1**

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

License: Apache License 2.0

### **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/>

License: Apache License 2.0

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

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

License: Apache License 2.0

### **3.1.41 doT - 1.0.1**

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

License: MIT License


### **3.1.42 JQuery: 2.0.3**

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

License: MIT License

### **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)

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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**

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>

License: Public Domain

### **3.1.48 SyncML C Toolkit - 4.0.3**


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

License: SyncML License

### **3.1.49 CMarkup - 11.05**

License: Acquired Cmarkup developer license

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

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License: Acquired commercial license

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

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

License: Acquired commercial license

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

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

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### **3.1.53 Android - platform - bootable – recovery - 4.0.1\_r1**

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

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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**

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

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### **3.1.57 File system in Userspace - 2.8.7**


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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### **3.1.60 lucy search engine – lucy - 0.6.0**

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### **3.1.61 NetBSD - 1.4**

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### **3.1.62 Open BSD - 4.5**

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

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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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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**

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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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<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**

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<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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1.2beta2 dev


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### **3.1.85 wosh**

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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/>

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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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Berkeley/Bremen, 05.04.2009 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**

Version 2.0

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#### **3.1.96.1 SDL\_gfx**

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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These are both optional features that can be omitted when the library is built.

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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));
```

Also, thepng

log (in PNG format, of course) is supplied in the files "pngbar.png" and "pngbar.jpg" (88x31) and "pngnow.png" (98x31).

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Glenn Randers-Pehrson  
glennrp at  
users.sourceforge.net  
September 10, 2009

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

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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

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.

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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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### **3.2.26 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>

252bda4f1be9 Copyright © 2002-2014 Jouni Malinen and contributors.

### **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.


## 4.0 Node Modules Components

Name of OSS Component	Version of OSS Component	Name and Version of License	Home page
buffer-crc32	0.2.5	MIT	<a href="https://github.com/brianloveswords/buffer-crc32">https://github.com/brianloveswords/buffer-crc32</a>
dbus-native	0.2.0	MIT	<a href="https://github.com/sidorares/node-dbus">https://github.com/sidorares/node-dbus</a>
dbus-proxy	0.0.0-unreleasable	NA	NA
abstract-socket	1.1.0	MIT	<a href="https://github.com/saghul/node-abstractsocket">https://github.com/saghul/node-abstractsocket</a>
bindings	1.2.1	MIT	<a href="https://github.com/TooTallNate/node-bindings">https://github.com/TooTallNate/node-bindings</a>
nan	2.4.0	MIT	<a href="https://github.com/nodejs/nan#readme">https://github.com/nodejs/nan#readme</a>
1to2	1.0.0	MIT	NA
event-stream	3.3.4	MIT	<a href="http://github.com/dominictarr/event-stream">http://github.com/dominictarr/event-stream</a>
duplexer	0.1.1	MIT	<a href="https://github.com/Raynos/duplexer">https://github.com/Raynos/duplexer</a>
from	0.1.3	MIT	<a href="https://github.com/dominictarr/from">https://github.com/dominictarr/from</a>
map-stream	0.1.0	NA	<a href="http://github.com/dominictarr/map-stream">http://github.com/dominictarr/map-stream</a>
pause-stream	0.0.11	MIT, Apache2	<a href="https://github.com/dominictarr/pause-stream">https://github.com/dominictarr/pause-stream</a>
split	0.3.3	MIT	<a href="http://github.com/dominictarr/split">http://github.com/dominictarr/split</a>




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stream-combiner	0.0.4	MIT	<a href="https://github.com/dominictarr/stream-combiner">https://github.com/dominictarr/stream-combiner</a>
through	2.3.8	MIT	<a href="https://github.com/dominictarr/through">https://github.com/dominictarr/through</a>
put	0.0.6	MIT/X11	<a href="https://github.com/substack/node-put">https://github.com/substack/node-put</a>
xml2js	0.1.14	NA	<a href="https://github.com/Leonidas-from-XIV/node-xml2js">https://github.com/Leonidas-from-XIV/node-xml2js</a>
sax	1.2.1	ISC	<a href="https://github.com/isaacs/sax-js#readme">https://github.com/isaacs/sax-js#readme</a>
iconv-lite	0.4.15	MIT	<a href="https://github.com/ashtuchkin/iconv-lite">https://github.com/ashtuchkin/iconv-lite</a>
jbinary	2.1.2	MIT	<a href="https://github.com/jDataView/jBinary">https://github.com/jDataView/jBinary</a>
es6-promise	2.0.1	MIT	NA
es6-promise	2.0.1	MIT	<a href="https://github.com/jakearchibald/ES6-Promises">https://github.com/jakearchibald/ES6-Promises</a>
jdataview	2.5.0	WTFPL	<a href="http://jDataView.github.io/">http://jDataView.github.io/</a>
request	2.53.0	Apache-2.0	<a href="https://github.com/request/request">https://github.com/request/request</a>
aws-sign2	0.5.0	NA	<a href="https://github.com/mikeal/aws-sign">https://github.com/mikeal/aws-sign</a>
bl	0.9.4	MIT	<a href="https://github.com/rvagg/bl">https://github.com/rvagg/bl</a>
readable-stream	1.0.33	MIT	<a href="https://github.com/isaacs/readable-stream">https://github.com/isaacs/readable-stream</a>
core-util-is	1.0.1	MIT	<a href="https://github.com/isaacs/core-util-is">https://github.com/isaacs/core-util-is</a>
inherits	2.0.1	ISC	<a href="https://github.com/isaacs/inherits">https://github.com/isaacs/inherits</a>
isarray	0.0.1	MIT	<a href="https://github.com/juliangruber/isarray">https://github.com/juliangruber/isarray</a>
string_decoder	0.10.31	MIT	<a href="https://github.com/rvagg/string_decoder">https://github.com/rvagg/string_decoder</a>
caseless	0.9.0	BSD	<a href="https://github.com/mikeal/caseless">https://github.com/mikeal/caseless</a>
combined-stream	0.0.7	NA	<a href="https://github.com/felixge/node-combined-stream">https://github.com/felixge/node-combined-stream</a>
delayed-stream	0.0.5	NA	<a href="https://github.com/felixge/node-delayed-stream">https://github.com/felixge/node-delayed-stream</a>
forever-agent	0.5.2	NA	<a href="https://github.com/mikeal/forever-agent">https://github.com/mikeal/forever-agent</a>
form-data	0.2.0	MIT	<a href="https://github.com/felixge/node-form-data">https://github.com/felixge/node-form-data</a>
async	0.9.0	MIT	<a href="https://github.com/caolan/async">https://github.com/caolan/async</a>
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	<a href="https://github.com/hueniverse/hawk">https://github.com/hueniverse/hawk</a>
boom	2.6.1	BSD	<a href="https://github.com/hapijs/boom">https://github.com/hapijs/boom</a>
cryptiles	2.0.4	BSD	<a href="https://github.com/hapijs/cryptiles">https://github.com/hapijs/cryptiles</a>
hoek	2.11.0	BSD	<a href="https://github.com/hapijs/hoek">https://github.com/hapijs/hoek</a>
sntp	1.0.9	BSD	<a href="https://github.com/hueniverse/sntp">https://github.com/hueniverse/sntp</a>

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http-signature	0.10.1	MIT	<a href="https://github.com/joyent/node-http-signature/">https://github.com/joyent/node-http-signature/</a>
asn1	0.1.11	NA	NA
assert-plus	0.1.5	NA	<a href="https://github.com/mcavage/node-assert-plus">https://github.com/mcavage/node-assert-plus</a>
ctype	0.5.3	NA	<a href="https://github.com/rmustacc/node-ctype">https://github.com/rmustacc/node-ctype</a>
isstream	0.1.1	MIT	<a href="https://github.com/rvagg/isstream">https://github.com/rvagg/isstream</a>
json-stringify-safe	5.0.0	BSD	<a href="https://github.com/isaacs/json-stringify-safe">https://github.com/isaacs/json-stringify-safe</a>
mime-types	2.0.9	MIT	<a href="https://github.com/jshttp/mime-types">https://github.com/jshttp/mime-types</a>
mime-db	1.7.0	MIT	<a href="https://github.com/jshttp/mime-db">https://github.com/jshttp/mime-db</a>
node-uuid	1.4.2	MIT	<a href="https://github.com/broofa/node-uuid">https://github.com/broofa/node-uuid</a>
oauth-sign	0.6.0	NA	<a href="https://github.com/mikeal/oauth-sign">https://github.com/mikeal/oauth-sign</a>
qs	2.3.3	BSD	<a href="https://github.com/hapijs/qs">https://github.com/hapijs/qs</a>
stringstream	0.0.4	MIT	<a href="https://github.com/mhart/StringStream">https://github.com/mhart/StringStream</a>
tough-cookie	0.12.1	MIT	<a href="https://github.com/goinstant/tough-cookie">https://github.com/goinstant/tough-cookie</a>
punycode	1.3.2	MIT	<a href="https://mths.be/punycode">https://mths.be/punycode</a>
tunnel-agent	0.4.0	NA	<a href="https://github.com/mikeal/tunnel-agent">https://github.com/mikeal/tunnel-agent</a>
mkdirp	0.5.0	MIT	<a href="https://github.com/substack/node-mkdirp">https://github.com/substack/node-mkdirp</a>
minimist	0.0.8	MIT	<a href="https://github.com/substack/minimist">https://github.com/substack/minimist</a>
xml2js	0.4.5	MIT	<a href="https://github.com/Leonidas-from-XIV/node-xml2js">https://github.com/Leonidas-from-XIV/node-xml2js</a>
sax	0.6.1	BSD	<a href="https://github.com/isaacs/sax-js">https://github.com/isaacs/sax-js</a>
xmlbuilder	2.5.1	MIT	<a href="http://github.com/oozcitak/xmlbuilder-js">http://github.com/oozcitak/xmlbuilder-js</a>
lodash	3.1.0	MIT	<a href="https://lodash.com/">https://lodash.com/</a>


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