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XC-CI1	Open Source Software Attributions for XC_CI1_RN_AIVI_Scope 3.x	8 th July 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

Name of OSS Componen t	Ver sio n of OS S Co mp one nt	Name and Version of License (License text can be found in Appendix below)	Home page	More Information
7 Zip - LZMA SDK	9.2	Public Domain	http://www.7- zip.org/sdk.html	Copyright (C) 1999-2005, 2016 Igor Pavlov Copyright (C) 2007-2009 Industrie Dial Face S.p.A.
ACL	2.2.5 2,2.2 .53	GNU Lesser General Public License v2.1 or later	https://savannah.nongnu.org /projects/acl	 (C) 1999, 2000 Andreas Gruenbacher Copyright (C) 1999,2000,2002,2003,2007,2011 Andreas Gruenbacher Copyright (C) 2001-2002 Silicon Graphics, Inc 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 Plugins	1.0.2 9	GNU Lesser General Public License v2.1 or later	https://www.alsa- project.org/wiki/ALSA_Librar y_API	Copyright (c) 2 Simons Copyright (c) 2 Ossman	2008 by Sjoerd	
Alsa Utils	1.0.2 9	GNU General Public License v2.0 or later	https://www.alsa- project.org/wiki/ALSA_Librar y_API	Copyright (c) 1 by Jaroslav Ky Copyright (C) 2 Hartman Copyright (C) 2 Sievers Copyright (c) 1 Copyright (c) 1 Copyright (C) 1 Copyright (C) 2 Ltd Copyright (C) 2 Ltd Copyright (C) 2 Copyright (C) 2 Copyright (C) 2 Copyright (C) 2 Copyright (C) 2 Copyright (C) 2 Copyright (C) 2	2003 Greg Kroah- 2004-2006 Kay 004-2006 Clemens 998,1999 Tim Janik 874 Lewis Carroll 2008-2010 SlimLogic 1999-2000,2003 by 2000-2004 James n 2005 Nathan Hurst	
Android - platform - bootable - recovery	Uns pecif ied	Apache License 2.0	http://developer.android.com /index.html	Copyright: 200 Source Project	17 The Android Open t	
apitrace	7.1	MIT License	http://github.com/apitrace/ap itrace/	Google Inc Copyright 201 Corporation Copyright 201 Fonseca Copyright 2015 Copyright 2015 Copyright 2015 Contributed by Copyright 2000 Carl Worth Copyright 2015	0-2016 VMware, Inc 1-2014 Jose 1 LunarG, Inc 5 Alexander Trukhin 3 Samsung 7 Eugene Velesevich 16 Keith Packard and	



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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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



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with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this Page **162** of **274**



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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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables. Page **163** of **274**



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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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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.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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PCRE 5 LICENCE

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

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3.1.67 File system in User space - 2.9.3

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3.1.68 Libdivsufsort - 2.0.0

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

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3.1.70 7 Zip - LZMA SDK - 9.2

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3.1.71 7-Zip - 7-Zip -3.11

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3.1.73 XZ Utils -5.0.7

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3.1.75 Android - platform - dalvik - 2.1_r1

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3.1.76 gpclib

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

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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

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3.1.81 gecko-dev

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



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3.1.90 Sunrise/set calculator

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3.1.91 tiny-AES128-C

Version master-20141218



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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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3.1.94 Curl and Libcurl

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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

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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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3.2.3.3 RealVNC modifications to OpenSSL

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.

3.2.4 SHA

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! Reference source not found.

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```
printf("%s",png_get_copyright(NULL));
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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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3.2.19 libxml2

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which



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3.2.19.2 hash.c

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3.2.19.3 list.c

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3.2.19.4 trio.c, trio.h

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3.2.19.5 RealVNC modifications to libxml2

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

Android.

3.2.20 miniupnpc

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3.2.20.1 Copyright notice

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:



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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://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.

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.



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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/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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2005.2., Cameron Rich All



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3.2.32 RealVNC modifications to axTLS

Some unwanted type and function definitions have been removed.



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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	https://github.com/brianloveswords/b uffer-crc32	
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	
event-stream	3.3.4	MIT	http://github.com/dominictarr/event- stream	
duplexer	0.1.1	MIT	https://github.com/Raynos/duplexer	
from	0.1.3	MIT	https://github.com/dominictarr/from	
map-stream	0.1.0	NA	http://github.com/dominictarr/map- stream	
pause-stream	0.0.11	MIT, Apache2	https://github.com/dominictarr/pause- stream	
split	0.3.3	MIT	http://github.com/dominictarr/split	
stream-combiner	0.0.4	MIT	https://github.com/dominictarr/strea m-combiner	
through	2.3.8	MIT	https://github.com/dominictarr/throug h	
put	0.0.6	MIT/X11	https://github.com/substack/node-put	
xml2js	0.1.14	NA	https://github.com/Leonidas-from- XIV/node-xml2js	
sax	1.2.1	ISC	https://github.com/isaacs/sax- js#readme	
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jdataview	2.5.0	WTFPL	http://jDataView.gith	ub.io/
request	2.53.0	Apache-2.0	https://github.com/re	equest/request
aws-sign2	0.5.0	NA	https://github.com/m	nikeal/aws-sign
bl	0.9.4	MIT	https://github.com/rv	vagg/bl
readable-stream	1.0.33	MIT	https://github.com/is stream	aacs/readable-
core-util-is	1.0.1	MIT	https://github.com/is	aacs/core-util-is
inherits	2.0.1	ISC	https://github.com/is	
isarray	0.0.1	MIT	https://github.com/ju y	uliangruber/isarra
string_decoder	0.10.31	MIT	https://github.com/rv der	vagg/string_deco
caseless	0.9.0	BSD	https://github.com/m	nikeal/caseless
combined-	0.0.7	NA	https://github.com/fe	
stream			combined-stream	
delayed-stream	0.0.5	NA	https://github.com/felixge/node- delayed-stream	
forever-agent	0.5.2	NA	https://github.com/mikeal/forever- agent	
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async	0.9.0	MIT	https://github.com/c	aolan/async
hawk	NA	./LICENSE	NA	
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hoek	2.11.0	BSD	https://github.com/h	apijs/hoek
sntp	1.0.9	BSD	https://github.com/h	ueniverse/sntp
http-signature	0.10.1	MIT	https://github.com/joyent/node-http- signature/	
asn1	0.1.11	NA	NA	
assert-plus	0.1.5	NA	https://github.com/mcavage/node- assert-plus	
ctype	0.5.3	NA	https://github.com/rmustacc/node- ctype	
isstream	0.1.1	MIT	https://github.com/rv	vagg/isstream
json-stringify- safe	5.0.0	BSD	https://github.com/is stringify-safe	
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tunnel-agent	0.4.0	NA	https://github.com/ agent	https://github.com/mikeal/tunnel- agent	
mkdirp	0.5.0	MIT	v	https://github.com/substack/node-	
minimist	0.0.8	MIT	https://github.com/	https://github.com/substack/minimist	
xml2js	0.4.5	MIT	https://github.com/ XIV/node-xml2js	https://github.com/Leonidas-from-	
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