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1 List of used Open Source Components.

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3	Alsa Plugins	1.1.8	GNU Lesser General Public License v2.1 or later	ftp://ftp.alsa-project.org/pub/p
4	Alsa Tools	1.1.5	GNU General Public License v2.0 or later	http://www.alsa-project.org/



5	Alsa Utils	1.1.8	GNU General Public License v2.0 or later	http://www.alsa-project.org/
6	AppArmor Userspace Utilities	2.11.0	GNU General Public License v2.0 only	http://wiki.apparmor.net/index
7	Atomic_ops	7.4.0	MIT License	http://www.hpl.hp.com/resear
8	Attr	2.4.47	GNU General Public License v2.0 or later	http://savannah.nongnu.org/pi
9	Audit	2.7.6	GNU General Public License v2.0 or later	http://tracker.debian.org/pkg/a
10	Bash	3.2.57	GNU General Public License v2.0 or later	http://www.gnu.org/software/
11	BlueZ	5.48	GNU General Public License v2.0 or later	http://www.bluez.org/
12	Boost C++ Libraries - boost	1.67.0, 1.57.0	Boost Software License 1.0	http://sourceforge.net/projects



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13	BusyBox	1.30.1	GNU Gen Public Lic v2.0 only	ense	http://www.busybox.net
14	Bzip2	1.0.6	Bzip2 Lice	ense	http://www.bzip.org/
15	C Unit Testing Framework	2.1-3	GNU Libra General F License va later	Public	http://sourceforge.net/project



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16	Crypto++	Unspecified	Public Domain	http://github.com/weidai11/cr
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26	Darwin Source Repository - diskdev_cmds	332.25	Apple Public Source License 1.1	http://sourceforge.net/projects
27	Digest::MD5	Unspecified	Public Domain	http://www.cpan.org/authors/
28	Dnsmasq	2.78	GNU General Public License v2.0 only	http://thekelleys.org.uk/dnsma
29	EXIF Tag Parsing Library - libexif	0.6.21	GNU Lesser General Public License v2.1 or later	http://sourceforge.net/projects
30	Evtest	1.33	GNU General Public License v2.0 or later	http://cgit.freedesktop.org/evt
31	Expat XML Parser - libexpat	2.2.6	MIT License	http://tracker.debian.org/pkg/
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33	Ext2 Filesystems Utilities	1.43.8	GNU General Public License v2.0 or later	http://e2fsprogs.sourceforge.n
34	FLAC-Free Lossless Audio Codec - flac-src	1.3.2	BSD 3-Clause "New" or "Revised" License	http://sourceforge.net/projects
35	Filesystem in Userspace	2.9.7, 2.9.4	GNU Library General Public License v2 or later	http://sourceforge.net/projects
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37	FreeImage	3.17.0	Freelmage Public License v1.0	http://sourceforge.net/projects
38	Fontconfig	2.12.6, 2.11.94	MIT License	http://freedesktop.org/wiki/So
39	Das U-Boot - Universal Bootloader	2018.09	GNU General Public License v2.0 or later	https://github.com/u-boot/u-b
40	7-Zip - LZMA SDK	9.2	Public Domain	http://sourceforge.net/projects
41	SELinux reference policies	20060307	GNU General Public License v2.0 or later	http://sourceforge.net/projects



4	2 Kernel Configuration System	0.1.1	GNU General Public License v2.0 or later	http://savannah.nongnu.org/pi
4	3 GCC C++ / libstdc++	7.3.1, 3.0, 5.2.0	GCC Runtime Library Exception 3.1 to GPL 3.0	https://gcc.gnu.org/libstdc++/
4	4 GConf	3.2.6	GNU Library General Public License v2 or later	http://www.gnome.org/project
4	5 GDK-Pixbuf	2.36.11, 2.0	GNU Library General Public License v2 or later	http://www.gnome.org/
4	6 GENIVI Audio Manager	3.2, 1.1	Mozilla Public License 2.0	https://www.ohloh.net/p/geniv
4	GENIVI Diagnostic Log and Trace Daemon	2.18.4, 2.16.0	Mozilla Public License 2.0	http://projects.genivi.org/diagr
4	GENIVI IPC CommonAPI C++ DBus Runtime	3.1.12.4	GNU General Public License v2.0 or later	http://github.com/GENIVI/capi



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49	GENIVI IPC CommonAPI C++ Runtime	3.1.12.4	Mozilla Public License 2.0	http://projects.genivi.org/com
50	GENIVI IPC CommonAPI C++ Someip	3.1.12.11	Mozilla Public License 2.0	https://github.com/GENIVI/cap
51	GENIVI IVI Layer Management	1.2.0, 0.9.9	Apache License 2.0	http://projects.genivi.org/ivi-la
52	GENIVI Node Health Monitor	1.3.5	Mozilla Public License 2.0	https://github.com/GENIVI/noc
53	GENIVI Node Startup Controller	1.0.3	Mozilla Public License 2.0	http://projects.genivi.org/node
54	GENIVI Node State Manager	2.0.0	Mozilla Public License 2.0	https://github.com/GENIVI/nod
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57	GNU C Library - glibc	2.27	GNU Lesser General Public License v2.1 or later	http://www.gnu.org/software/



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70	GUPnP		1.0.2	GNU Library General Public License v2 or later	http://www.gupnp.org	:/
71	GUPnP-A	AV	0.12.10	GNU Library General Public License v2 or later	https://developer.gnor	ne.org/g



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78	HFS Utilities	3.2.6	GNU General Public License v2.0 or later	http://www.mars.org/home/ro
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88	Jam STAPL Byte-Code Player	2.2	Jam STAPL Software License	https://www.intel.com/contentresources/download/legacy/jar
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106	Linux PTP	1.8	GNU General Public License v2.0 or later	http://linuxptp.sourceforge.ne
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111	MessagePack	2.1.5	Boost Software License 1.0	http://github.com/msgpack/ms
112	Music-DSP	Unspecified	Public Domain	http://www.musicdsp.org/arch
113	NFS - nfs-utils	2.1.1	GNU General Public License v2.0 or later	http://sourceforge.net/projects
114	NTFS-3G Read/Write Driver	2017.3.23	GNU General Public License v2.0 or later	http://www.tuxera.com/comm



115	Ne10	1.2.1	BSD 3-Clause "New" or "Revised" License	http://github.com/projectNe10
116	NeuQuant - Neural Image Quantization	Unspecified	NeuQuant Neural-Net Quantization Algorithm License	http://members.ozemail.com.a
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118	Netscape Portable Runtime	4.19	Mozilla Public License 2.0	http://www.mozilla.org/projec
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120	ORC - The Oil Runtime Compiler	0.4.28	BSD 2-Clause "Simplified" License	https://gstreamer.freedesktop.



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	121	Open Scene Graph	3.2.3, 3.2.0	OpenSceneGraph Public License, Version 0.0	http://www.openscenegraph.o
=	122	Open-AVB	v1.1	BSD 3-Clause "New" or "Revised" License	http://github.com/AVnu/Open
	123	pugixml	1	MIT License	http://github.com/zeux/pugixn
-	124	poly2tri	Unspecified	BSD 3-clause "New" or "Revised" License	http://code.google.com/p/poly
	125	osgearth	Unspecified	OSGEARTH SOFTWARE LICENSE	https://github.com/gwaldron/d
-	126	OpenSSL - in C	1.1.1d, 1.0.2q	OpenSSL Combined License	http://www.openssl.org
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129	Pango	1.40.14	GNU Library General Public License v2 or later	http://www.pango.org/
130	Pkg Config	0.29.2	GNU General Public License v2.0 or later	http://www.freedesktop.org/w
131	Popt	1.16	MIT License	http://freshmeat.net/projects/
132	Protocol Buffers	3.9.1, 2.3.0	BSD 3-Clause "New" or "Revised" License	http://tracker.debian.org/pkg/p
133	PulseAudio	11.1	GNU Lesser General Public License v2.1 or later	http://pulseaudio.org/
134	PyGObject - Python Bindings for the GObject+ library	3.28.1	GNU Lesser General Public License v2.1 or later	http://t2sde.org/packages/pyg
135	Python	2.7.18	Python Software Foundation License 2.1.1	http://www.python.org/

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136	Python3	3.7.3	Python Software Foundation License 2.1.1	https://www.python.org/
137	SQLite	3.21.0,3.26.0, 3.7.5	Public Domain	http://www.sqlite.org/
138	cryptodev-linux	1.9	GNU General Public License v2.0 or later	http://cryptodev-linux.org/
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140	UTF-8 CPP	Unspecified	Boost Software License 1.0	http://sourceforge.net/projects
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142	Tadween	1.0.4	MIT License	http://sourceforge.net/projects
143	QRCode	0.0.1	MIT License	https://github.com/ricmoo/QR
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152	Stanford Secure Remote Password Authentication - SRP	2.1.2	Stanford SRP Authentication Project License	http://srp.stanford.edu/
153	Stunnel Universal SSL Wrapper	5.44	stunnel GPL 2.0 with Exception License	http://www.stunnel.org/
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156	TagLib	1.11.1	GNU Lesser General Public License v2.1 or later	http://tracker.debian.org/pkg/
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169	XZ Utils	5.2.3	Public Domain	http://tukaani.org/xz/
170	apitrace	7.1	MIT License	http://github.com/apitrace/api
171	avdecc-lib	0.6.20	MIT License	http://github.com/audioscience
172	bonnie++	1.03e	GNU General Public License v2.0 only	https://www.coker.com.au/boi
173	brotli	0.1.1	MIT License	https://github.com/google/bro
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176	cdparanoia	10.2	GNU General Public License v2.0 or later	http://www.xiph.org/paranoia/
177	cmocka	1.0.1	Apache License 2.0	https://cmocka.org/
178	Crda	3.18	copyleft-next 0.3.0	https://www.kernel.org/pub/so
179	cryptsetup	2.0.1	GPL 2.0 with OpenSSL Exception	http://code.google.com/p/cryp
180	Delaunay-Triangulation	Unspecified	License for Delaunay- Triangulation	



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181	curl - curl	7.66.0, 7.59.0, 7.64.1	MIT License	http://tracker.debian.org/pkg/d
182	dbus-glib	0.106	Academic Free License v2.1	http://www.freedesktop.org/w
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184	dleyna-connector-dbus	0.3.0	GNU Lesser General Public License v2.1 only	https://01.org/dleyna/downloa
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190	elfutils	0.148	GNU General Public License v2.0 only	https://fedorahosted.org/elfuti
191	ethtool	4.13	GNU General Public License v2.0 or later	https://www.kernel.org/pub/so



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195	grpc	1.22.0	Apache License 2.0	http://github.com/grpc/grpc/
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197	gst-rtsp-server	1.12.4	GNU Library General Public License v2 or later	http://github.com/sebp/gst-rts
198	gstreamer-vspfilter	1.0.0-r0	GNU Library General Public License v2 or later	https://github.com/renesas-rca
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201	hostapd - IEEE 802.11 AP & IEEE 802.1X/WPA/WPA2/EAP/RADIUS Authenticator	2.9	BSD 3-Clause "New" or "Revised" License	http://hostap.epitest.fi/hostap
202	i2c-tools	4	GNU General Public License v2.0 or later	http://github.com/groeck/i2c-t
203	initscripts	1.0-r155	GNU General Public License v2.0 only	https://git.yoctoproject.org/cgi core/initscripts/initscripts-1.0/
204	iw-ct	4.14	ISC License	http://github.com/greearb/iw-
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2	211	jubatus-msgpack-rpc	0.4.4	Apache License 2.0	https://github.com/jubatus/jub
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2	214	Libarchive	3.3.2	BSD 3-Clause "New" or "Revised" License	http://tracker.debian.org/pkg/l



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217	libcap-ng	0.7.8	GNU General Public License v2.0 or later	http://people.redhat.com/sgru
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224	libffi	3.2.1	MIT License	http://tracker.debian.org/pkg/l
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230	libinput	1.9.4	MIT License	https://www.freedesktop.org/v
231	libjpeg	8b	Independent JPEG Group License	http://www.ijg.org/
232	libjpeg	1.5.3	zlib License	http://tracker.debian.org/pkg/l
233	libktx	2	BSD-like license (libktx)	https://www.khronos.org/oper
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235	libjson-rpc-cpp	1.1.0	MIT License	http://github.com/cinemast/lib
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238	libpng	1.6.34, 1.6.32	libpng License	http://tracker.debian.org/pkg/l
239	libmtp	1.1.14, 1.1.6	GNU Library General Public License v2 or later	http://sourceforge.net/projects



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245	librsvg	2.40.20	GNU Library General Public License v2 or later	https://wiki.gnome.org/action/



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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 a) Accompany the work with the complete corresponding machine-readable one of these things: 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 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. 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

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied 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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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.)

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Berkeley/Bremen, 05.04.2009 Jutta Degener Carsten Bormann

3.1.94 Curl and Libcurl

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3.1.95 aladdin-md5

Version Unspecified

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3.1.96 OpenGL-Examples

Version master-20141123

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

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3.1.99 Code Project - C++ Memory Pool

Version 1.0

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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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3.2.4.1 Dr Brian Gladman

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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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3.2.14 keysymdef

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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: miniupn



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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.

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



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@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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3.2.28.1 **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.

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/buffer-crc32
dbus-native	0.2.0	MIT	https://github.com/sidorares/node- dbus
dbus-proxy	0.0.0- unreleasable	NA	NA



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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
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
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
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/
request	2.53.0	Apache-2.0	https://github.com/request/request
aws-sign2	0.5.0	NA	https://github.com/mikeal/aws-sign
bl	0.9.4	MIT	https://github.com/rvagg/bl
readable-stream	1.0.33	MIT	https://github.com/isaacs/readable- stream
core-util-is	1.0.1	MIT	https://github.com/isaacs/core-util-is
inherits	2.0.1	ISC	https://github.com/isaacs/inherits
isarray	0.0.1	MIT	https://github.com/juliangruber/isarra
string_decoder	0.10.31	MIT	https://github.com/rvagg/string_decoder
caseless	0.9.0	BSD	https://github.com/mikeal/caseless



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combined-	0.0.7	NA	https://github.com/felixge/node-
stream	0.0.7		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-
C			agent
form-data	0.2.0	MIT	https://github.com/felixge/node-form-
			data
async	0.9.0	MIT	https://github.com/caolan/async
hawk	NA	./LICENSE	NA
hawk	2.3.1	BSD	https://github.com/hueniverse/hawk
boom	2.6.1	BSD	https://github.com/hapijs/boom
cryptiles	2.0.4	BSD	https://github.com/hapijs/cryptiles
hoek	2.11.0	BSD	https://github.com/hapijs/hoek
sntp	1.0.9	BSD	https://github.com/hueniverse/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/rvagg/isstream
json-stringify-	5.0.0	BSD	https://github.com/isaacs/json-
safe			stringify-safe
mime-types	2.0.9	MIT	https://github.com/jshttp/mime-types
mime-db	1.7.0	MIT	https://github.com/jshttp/mime-db
node-uuid	1.4.2	MIT	https://github.com/broofa/node-uuid
oauth-sign	0.6.0	NA	https://github.com/mikeal/oauth-sign
qs	2.3.3	BSD	https://github.com/hapijs/qs
stringstream	0.0.4	MIT	https://github.com/mhart/StringStrea
			m
tough-cookie	0.12.1	MIT	https://github.com/goinstant/tough-
			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



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