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XC_CI	XC_CI1_RN_AIVI_Scope 3.x	16 th 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
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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>	
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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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Version 3.1, 31 March 2009

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25.	kmod	26- 1bv2 b1	019.0	LGPL-2.1+ Other licenses: LGPL-2.1 GPL-2.0+	Copyrig Copyrig Copyrig Copyrig Copyrig (C) 201: Copyrig Copyrig Systems Copyrig	sht 2010 Ran Benita sht 2010 Lennart Poettering sht (C) 2016 Intel Corporation. sht (C) 2013 Tom Gundersen sht (C) 2013 Michal Marek, SUSE sht (C) 2013 Intel Corporation. Copyright 2 W. Trevor King sht (C) 2012 Red Hat, Inc. W. Trevor King sht (C) 2012 Lucas De Marchi sht (C) 2011-2013 ProFUSION embedded s sht (C) 2008 Alan Jenkins sht (C) 2004-2012 Kay Sievers
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3.1.44 SafeSlinger-Android - 1.8.3-messenger

Home Page: http://github.com/SafeSlingerProject/SafeSlinger-Android/

License: MIT License

3.1.45 OpenSSL

Home Page: http://www.openssl.org/

License: OpenSSL Combined License

3.1.46 CRC32

Home Page: http://web.mit.edu/

License: Public Domain

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

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



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3.1.52 UCL Data Compression Library - 1.03

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3.1.53 Android - platform - bootable – recovery - 4.0.1_r1

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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

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3.1.57 File system in Userspace - 2.8.7

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3.1.58 lz4 Compression algorithm - r111

Home Page: http://code.google.com/p/lz4/ License: BSD 2-clause "Simplified" License

3.1.59 Android -platform - system - core/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

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3.1.63 Bsdiff - 4.3

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

Home Page: http://www.gnu.org/software/libc/libc.html We use only content from the header file elf.h. License: GNU General Public License v2.0 or later

3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0

Home Page: http://www.igep.es/ License: GNU General Public License v2.0 or later

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

Home Page: http://code.google.com/p/test-sqlite-blob/ License: MIT License

3.1.70 7 Zip - LZMA SDK - 9.2

Home Page: http://www.7-zip.org/sdk.html License: Public Domain

3.1.71 7-Zip - 7-Zip -3.11

Home Page: http://sourceforge.net/projects/sevenzip/ License: Public Domain

3.1.72 CRC32 MIT.edu

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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3.1.83 Opus

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3.1.84 Speex

1.2beta2 dev

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3.1.85 wosh

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3.1.86 jsoncpp

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

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3.1.87 libxml2

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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

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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 http://www.libsdl.org/index.php Copyright (C) 1997-2016 Sam Lantinga <slouken@libsdl.org> zlib License

3.1.96.1 SDL_gfx

Version Unspecified http://sourceforge.net/projects/sdlgfx/ Copyright unknown

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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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3.1.101 Alsa Libraries

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3.1.102 GStreamer

Version Unspecified

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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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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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3.2.12 LodePNG

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3.2.13 GCC libstdc++

This is not in our source delivery, but is statically linked in to our binary deliveries from the specified version of GCC. See http://gcc.gnu.org/libstdc++ or http://gcc.gnu.org/releases.html for more information.

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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3.2.19.3 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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Project: miniupnp

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

Author: Thomas Bernard

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3.2.20.3 RealVNC modifications to

miniupnpc The following modifications

have been made:

- Requests have been cancelled.
- 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 http://iharder.net/base64 periodically to check for updates or to contribute improvements.

@author Robert Harder

@author rob@iharder.net

@version 2.3.5.2.

3.2.24 Internal Android OS APIs

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3.2.25 ExtractMpegFramesTest.java

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3.2.26 libupnp (pupnp)

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3.2.27 libudev

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3.2.28.1 RealVNC modifications to WPA Supplicant

RealVNC has applied the following patch:

http://w1.fi/cgit/hostap/patch/?id=f2b3acc9d5.2.b91fbaccfc9dd8d408

252bda4f1be9 Copyright © 2002-2014 Jouni Malinen and



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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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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
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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