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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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|  <b>BOSCH</b> | OSS Disclosure Document    | DATE                     |
|--|----------------------------|--------------------------|
| XC_CI1   | XC_AI_PRJ_RN_AIVI_Scope2.1 | 8 <sup>th</sup> Mar 2021 |

## Table of Contents


|          |   |           |
|----------|---|-----------|
| <b>1</b> | List of used Open Source Components. ....                               | <b>6</b>  |
| <b>2</b> | Appendix - License Text .....   | <b>83</b> |
| 2.1      | Academic Free License v2.1 .....  | 83        |
| 2.2      | Apache License 1.1 .....  | 86        |
| 2.3      | Apache License 2.0 .....  | 88        |
| 2.4      | Apple Public Source License 1.1 .....                                   | 91        |
| 2.5      | Artistic License 1.0 .....  | 99        |
| 2.6      | BSD 2-clause "Simplified" License.....                                  | 102       |
| 2.7      | BSD 3-clause "New" or "Revised" License.....                            | 103       |
| 2.8      | BSD-4-Clause (University of California-Specific) .....                  | 104       |
| 2.9      | BSD-like license (libktx) .....   | 105       |
| 2.10     | Boost Software License 1.0 .....  | 106       |
| 2.11     | Bzip2 License .....   | 107       |
| 2.12     | Eclipse Public License 1.0 .....  | 108       |
| 2.13     | Expat License.....  | 112       |
| 2.14     | Fine Free File Command License .....                                    | 113       |
| 2.15     | FreeImage Public License v1.0.....                                      | 114       |
| 2.16     | Freetype Project License .....  | 122       |
| 2.17     | GCC Runtime Library Exception 3.1 to GPL 3.0 .....                      | 125       |
| 2.18     | GNU General Public License v2.0 only .....                              | 134       |
| 2.19     | GNU General Public License v2.0 or later .....                          | 140       |
| 2.20     | GNU General Public License v3.0 or later with Bison exception 2.2 ..... | 147       |
| 2.21     | GNU Lesser General Public License v2.1 only.....                        | 156       |
| 2.22     | GNU Lesser General Public License v2.1 or later .....                   | 166       |
| 2.23     | GNU Library General Public License v2 or later .....                    | 176       |
| 2.24     | ICU License.....  | 186       |
| 2.25     | ISC License .....   | 187       |
| 2.26     | Independent JPEG Group License .....                                    | 188       |
| 2.27     | Info-ZIP License .....  | 190       |
| 2.28     | Info-ZIP Updated License.....   | 191       |
| 2.29     | LGPL 2.1 or later with Qt Company LGPL Exception version 1.1 .....      | 192       |
| 2.30     | License for Delaunay-Triangulation .....                                | 193       |
| 2.31     | Lua 5.0 License .....   | 194       |
| 2.32     | MIT License.....  | 195       |
| 2.33     | Mozilla Public License 2.0.....   | 196       |
| 2.34     | NeuQuant Neural-Net Quantization Algorithm License .....                | 201       |
| 2.35     | OSF - X Consortium License.....   | 202       |
| 2.36     | OSGEOGRAPH SOFTWARE LICENSE .....                                       | 203       |
| 2.37     | OpenSSL Combined License .....  | 204       |
| 2.38     | OpenSceneGraph Public License .....                                     | 206       |
| 2.39     | OpenSceneGraph Public License, Version 0.0 .....                        | 207       |
| 2.40     | PCRE 5 License .....  | 208       |
| 2.41     | Public Domain.....  | 209       |
| 2.42     | Python License 2.0 .....  | 210       |
| 2.43     | Stanford SRP Authentication Project License .....                       | 211       |
| 2.44     | TCP Wrappers License .....  | 212       |
| 2.45     | Unicode License .....   | 213       |
| 2.46     | Unicode License for Data Files and Software .....                       | 214       |
| 2.47     | Utm License .....   | 215       |
| 2.48     | VNC END USER LICENSE AGREEMENT.....                                     | 216       |

|  <b>BOSCH</b> | OSS Disclosure Document    | DATE                     |
|--|----------------------------|--------------------------|
| XC_CI1   | XC_AI_PRJ_RN_AIVI_Scope2.1 | 8 <sup>th</sup> Mar 2021 |


|         |  |     |
|---------|--|-----|
| 2.49    | copyleft-next 0.3.0 .....                              | 220 |
| 2.50    | curl License.....                                      | 227 |
| 2.51    | libpng License.....                                    | 228 |
| 2.52    | libtheora License .....                                | 230 |
| 2.53    | libtiff License .....                                  | 231 |
| 2.54    | stunnel GPL 2.0 with Exception License.....            | 232 |
| 2.55    | zlib License .....                                     | 233 |
| 3.      | Other Open Source Dependencies: .....                  | 234 |
| 3.1.1   | X Windows - XFree86 1.9.....                           | 234 |
| 3.1.2.  | Zlib - 1.1.4.....                                      | 234 |
| 3.1.3.  | OpenSSL - 0.9.8x.....                                  | 234 |
| 3.1.4.  | SHA .....  | 234 |
| 3.1.5.  | AES .....  | 234 |
| 3.1.6.  | EAX.....   | 234 |
| 3.1.7.  | Expat - 2.0.1.....                                     | 235 |
| 3.1.8.  | Libpng - 1.2.40.....                                   | 235 |
| 3.1.9.  | Libzip - 0.9 .....                                     | 235 |
| 3.1.10. | JPEG - 6b.....   | 235 |
| 3.1.11  | Libjpegturbo - 1.2.1 .....                             | 235 |
| 3.1.12  | GCC libstdc++ - 4.1.2 .....                            | 235 |
| 3.1.13  | Keysymdef.....   | 236 |
| 3.1.14  | Endian .....   | 236 |
| 3.1.15  | JRTPLIB - 3.9.1 .....                                  | 236 |
| 3.1.16  | JThread - 1.3.1 .....                                  | 236 |
| 3.1.17  | Portaudio - 1.9 .....                                  | 236 |
| 3.1.18  | Libxml2 - 2.9.1 .....                                  | 236 |
| 3.1.19  | Miniupnpc - 1.5 .....                                  | 236 |
| 3.1.21  | LibTomCrypt - 1.16 .....                               | 237 |
| 3.1.22  | LibTomMath - 0.39.....                                 | 237 |
| 3.1.23  | Base64.java - 2.3.5.2. ....                            | 237 |
| 3.1.24  | Internal Android OS APIs.....                          | 237 |
| 3.1.25  | ExtractMpeg FramesTest. java .....                     | 237 |
| 3.1.26  | Libupnp (pupnp) - 1.6.19.....                          | 237 |
| 3.1.27  | Libxml2 - 2.9.1 .....                                  | 237 |
| 3.1.28  | OpenSSL - 0.9.8x.....                                  | 238 |
| 3.1.29  | Wpa_supplicant - 2.3.....                              | 238 |
| 3.1.30  | Pythonpsutil_2.1.3.bb.....                             | 238 |
| 3.1.31  | Android SupportLibraries - 19.0.0 .....                | 238 |
| 3.1.33  | axTLS - 1.1.8 .....                                    | 238 |
| 3.1.34  | Action - 0.1.1.....                                    | 238 |
| 3.1.35  | Android - platform - frameworks – base - 4.0.1_r1..... | 238 |
| 3.1.36  | Android - platform - prebuilts – sdk - 4.4_r1.....     | 238 |
| 3.1.37  | Android SDK Support Libraries – 19,23.1.1 .....        | 239 |
| 3.1.38  | Android SDK Support Libraries .....                    | 239 |
| 3.1.39  | Mongolddu - master-20121109 .....                      | 239 |
| 3.1.40  | Stan-for-Android - 0.1.0 .....                         | 239 |
| 3.1.41  | doT - 1.0.1.....                                       | 239 |
| 3.1.42  | jQuery: 2.0.3.....                                     | 239 |
| 3.1.43  | jquery_mobile_rails - 1.3.2.....                       | 240 |
| 3.1.44  | SafeSlinger-Android - 1.8.3-messenger .....            | 240 |
| 3.1.45  | OpenSSL.....   | 240 |

|  <b>BOSCH</b> | OSS Disclosure Document    | DATE                     |
|--|----------------------------|--------------------------|
| XC_CI1   | XC_AI_PRJ_RN_AIVI_Scope2.1 | 8 <sup>th</sup> Mar 2021 |

|  |     |
|--|-----|
| 3.1.46 CRC32 .....   | 240 |
| 3.1.47 SHA-1 in C .....  | 240 |
| 3.1.48 SyncML C Toolkit - 4.0.3 .....  | 240 |
| 3.1.49 CMarkup - 11.05 .....   | 240 |
| 3.1.50 Freescale Semiconductor CodeWarrior Development Studio for MPC55xx/MPC56xx<br>Microcontrollers - 2.10 special edition ..... | 240 |
| 3.1.51 LZO real-time data compression library - 2.04 .....   | 241 |
| 3.1.52 UCL Data Compression Library - 1.03 .....   | 241 |
| 3.1.53 Android - platform - bootable – recovery - 4.0.1_r1 .....   | 241 |
| 3.1.54 Android - platform - bootable – recovery - 5.0.0_r1 .....   | 241 |
| 3.1.55 Android - platform - bootable – recovery - 2.3_r1 .....   | 241 |
| 3.1.56 Android - platform - system – core - 4.2 .....  | 241 |
| 3.1.57 File system in Userspace - 2.8.7 .....  | 241 |
| 3.1.58 lz4 Compression algorithm - r111 .....  | 241 |
| 3.1.59 Android -platform - system - core/libmincrypt .....   | 242 |
| 3.1.60 lucy search engine – lucy - 0.6.0 .....   | 242 |
| 3.1.61 NetBSD - 1.4 .....  | 242 |
| 3.1.62 Open BSD - 4.5 .....  | 242 |
| 3.1.63 Bsdiff - 4.3 .....  | 242 |
| 3.1.64 GNU C Library – glibc - 2.2.4 .....   | 242 |
| 3.1.65 IGEP Linux Kernel - 2.6.28.10-igep0020b-0 .....   | 242 |
| 3.1.66 squashfs - a compressed fs for Linux - squashfs4.3 .....  | 242 |
| 3.1.67 File system in User space - 2.9.3 .....   | 242 |
| 3.1.68 Libdivsufsort - 2.0.0 .....   | 243 |
| 3.1.69 Test-SQLite-blob - trunk-20120916-svn .....   | 243 |
| 3.1.70 7 Zip - LZMA SDK - 9.2 .....  | 243 |
| 3.1.71 7-Zip - 7-Zip -3.11 .....   | 243 |
| 3.1.72 CRC32 MIT.edu .....   | 243 |
| 3.1.73 XZ Utils -5.0.7 .....   | 243 |
| 3.1.74 Zlib - 1.2.3 .....  | 243 |
| 3.1.75 Android - platform – dalvik - 2.1_r1 .....  | 243 |
| 3.1.76 Wapiti (Public Domain) .....  | 243 |
| 3.2 Licensing, copyright, acknowledgements, and modifications .....  | 244 |
| 3.2.1 X Windows .....  | 245 |
| 3.2.1.1 The Open Group .....   | 245 |
| 3.2.1.2 Digital Equipment Corporation .....  | 245 |
| 3.2.1.3 Digital Equipment Corporation - Panoramix components .....   | 246 |
| 3.2.2 Zlib .....   | 246 |
| 3.2.3 OpenSSL .....  | 247 |
| 3.2.3.1 The OpenSSL Project .....  | 247 |
| 3.2.3.2 Eric Young .....   | 249 |
| 3.2.3.3 RealVNC modifications to OpenSSL .....   | 250 |
| 3.2.4 SHA .....  | 250 |
| 3.2.4.1 Dr Brian Gladman .....   | 250 |
| 3.2.4.2 Cameron Rich .....   | 251 |
| 3.2.5 AES .....  | 252 |
| 3.2.6 EAX .....  | 253 |
| 3.2.7 libjpeg-turbo .....  | 253 |
| 3.2.8 expat .....  | 254 |
| 3.2.9 libpng .....   | 255 |
| 3.2.10 libzip .....  | 257 |

|  <b>BOSCH</b> | OSS Disclosure Document    | DATE                     |
|--|----------------------------|--------------------------|
| XC_CI1   | XC_AI_PRJ_RN_AIVI_Scope2.1 | 8 <sup>th</sup> Mar 2021 |


|          |  |     |
|----------|--|-----|
| 3.2.10.2 | Free Software Foundation .....               | 258 |
| 3.2.10.4 | RealVNC modifications to libzip .....        | 259 |
| 3.2.11   | FreeType .....                               | 260 |
| 3.2.11.1 | Definitions .....                            | 260 |
| 3.2.11.2 | No Warranty .....                            | 260 |
| 3.2.11.3 | Redistribution .....                         | 260 |
| 3.2.11.4 | Advertising .....                            | 261 |
| 3.2.12   | LodePNG .....                                | 261 |
| 3.2.13   | GCC libstdc++ .....                          | 262 |
| 3.2.14   | keysymdef .....                              | 262 |
| 3.2.15   | Endian .....                                 | 263 |
| 3.2.16   | JRTPLIB .....                                | 263 |
| 3.2.17   | JThread .....                                | 264 |
| 3.2.18   | portaudio .....                              | 264 |
| 3.2.19   | libxml2 .....                                | 265 |
| 3.2.19.1 | License .....                                | 265 |
| 3.2.19.2 | hash.c .....                                 | 266 |
| 3.2.19.3 | list.c .....                                 | 266 |
| 3.2.19.4 | trio.c, trio.h .....                         | 266 |
| 3.2.19.5 | RealVNC modifications to libxml2 .....       | 267 |
| 3.2.20.1 | Copyright notice .....                       | 267 |
| 3.2.20.2 | License .....                                | 267 |
| 3.2.21   | LibTomCrypt .....                            | 268 |
| 3.2.22   | LibTomMath .....                             | 268 |
| 3.2.23   | Base64.java .....                            | 269 |
| 3.2.24   | Internal Android OS APIs .....               | 269 |
| 3.2.25   | ExtractMpegFramesTest.java .....             | 269 |
| 3.2.26   | libupnp (pupnp) .....                        | 270 |
| 3.2.27   | libudev .....                                | 271 |
| 3.2.28   | WPA Supplicant .....                         | 272 |
| 3.2.28.2 | ath9k_faf1dc64_backport.patch .....          | 273 |
| 3.2.28.3 | python-psutil_2.1.3.bb .....                 | 273 |
| 3.2.29   | Android Support Libraries .....              | 274 |
| 3.2.30   | VNC Wi-Fi Display i.MX6 sample decoder ..... | 274 |
| 3.2.31   | mxcfb.h .....                                | 274 |
| 3.2.32   | axTLS .....                                  | 275 |

|  |                                   |                                |
|--|-----------------------------------|--------------------------------|
|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


## 1 List of used Open Source Components.

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| Sl.No | Name of OSS Component                    | Version of OSS Component | Name and Version of License (License text can be found in Appendix below) | Home Page   | More Information  |
|-------|--|--------------------------|---|---|---|
| 1.    | fastlz                                   | 0.1.0                    | MIT License   | <a href="http://code.google.com/p/fastlz/">http://code.google.com/p/fastlz/</a>                                     | Copyright (C) 2005,2006,2007 Ariya Hidayat (ariya@kde.org)              |
| 2.    | RFC1321-based (RSA-free) MD5 library     | 1.6                      | zlib License  | <a href="http://sourceforge.net/projects/libmd5-rfc/">http://sourceforge.net/projects/libmd5-rfc/</a>               | Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved |
| 3.    | sqlite3                                  | 3.7.5                    | Public Domain   | <a href="http://rubygems.org/gems/sqlite3">http://rubygems.org/gems/sqlite3</a>                                     |   |
| 4.    | AES - Advanced Encryption Standard       | 1.0                      | zlib License  | <a href="http://www.lomont.org/Software/Misc/AES/AES.php">http://www.lomont.org/Software/Misc/AES/AES.php</a>       | 2000-2005 Chris Lomont  |
| 5.    | Alsa Libraries                           | 1.0.29                   | GNU Lesser General Public License v2.1 or later                           | <a href="https://www.alsa-project.org/wiki/ALSA_Library_API">https://www.alsa-project.org/wiki/ALSA_Library_API</a> | 2010 Red Hat Inc.   |
| 6.    | Android - platform - bootable - recovery | NA                       | Apache License 2.0  | <a href="http://developer.android.com/index.html">http://developer.android.com/index.html</a>                       | 2007 The Android Open Source Project                                    |
| 7.    | asn1c                                    | 0.9.27                   | BSD 2-clause  | <a href="http://github">http://github</a>   | Copyright © 2004, 2006  |

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


|     |  |                              |   |   |  |
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|     |  |                              | "Simplified" License                                  | b.com/vlm/<br>asn1c/  | Lev Walkin<br><vlm@lionet.info>. All<br>rights reserved, Copyright<br>© 2003, 2004 X/IO Labs,<br>xiolabs.com |
| 8.  | Boost C++<br>Libraries -<br>boost      | 1.58.0,<br>1.57.0,<br>1.50.0 | Boost Software<br>License 1.0                         | <a href="http://boost.org/">http://boost<br/>.org/</a>  | Rene Rivera 2008-2013<br>Microsoft Corporation<br>2014 Franz Detro 2014                                      |
| 9.  | Cairo Vector<br>Graphics<br>Library    | 1.14.2                       | GNU Lesser General<br>Public License v2.1<br>or later | <a href="http://cairographics.org/introduction">http://cairo<br/>graphics.org<br/>/introductio<br/>n</a>                                | Carl Worth and Keith<br>Packard, 2005 Red Hat, Inc   |
| 10. | Collabora                              | Unspec<br>ified              | Mozilla Public<br>License 2.0                         | <a href="https://www.collaboraoffice.com/">https://ww<br/>w.collabora<br/>office.com/</a>   | Copyright © 2016<br>Collabora Ltd  |
| 11. | ConnMan                                | 1.35                         | GNU General Public<br>License v2.0 only               | <a href="http://connman.net/">http://conn<br/>man.net/</a>  | 2007-2012 Intel<br>Corporation. All rights<br>reserved.  |
| 12. | curl                                   | 7.59.0,<br>7.52.1            | curl License  | <a href="https://curl.haxx.se/">https://curl.<br/>haxx.se/</a>  | Copyright (C) 1998 - 2012,<br>Daniel Stenberg,<br><daniel@haxx.se>, et al                                    |
| 13. | CVTUTF                                 | 1.0                          | Unicode License                                       | <a href="http://www.unicode.org/Public/PROGRAMS/CVTUTF">http://www<br/>.unicode.or<br/>g/Public/PR<br/>OGRAMS/C<br/>VTUTF</a>           | 2001 Unicode, Inc.<br><a href="http://unicode.org/">http://unicode.org/</a>                                  |
| 14. | D-Bus                                  | 1.0,<br>1.12.2               | Academic Free<br>License v2.1                         | <a href="http://www.freedesktop.org/wiki/IntroductionToDBus">http://www<br/>.freedeskto<br/>p.org/wiki/I<br/>ntroduction<br/>ToDBus</a> | 2003 CodeFactory AB  |
| 15. | Developers<br>Image Library -<br>DevIL | 1.7.8                        | GNU Lesser General<br>Public License v2.1<br>or later | <a href="http://sourceforge.net/projects/openil/">http://sourc<br/>eforge.net/<br/>projects/op<br/>enil/</a>                            | 2000-2009 by Denton<br>Woods, 2001 David<br>Galeano  |
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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


|     |  |                |  |   |  |
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| 17. | Filesystem in Userspace                | 2.9.4          | GNU Library General Public License v2 or later | <a href="http://sourceforge.net/projects/fuse/">http://sourceforge.net/projects/fuse/</a>   | 2001-2007 Miklos Szeredi                               |
| 18. | Fontconfig                             | 2.11.94        | MIT License                                    | <a href="http://freedesktop.org/wiki/Software/fontconfig">http://freedesktop.org/wiki/Software/fontconfig</a>   | 2001 Keith Packard                                     |
| 19. | Free Image                             | 3.15.4, 3.17.0 | FreeImage Public License v1.0                  | <a href="http://freeimage.sourceforge.net/">http://freeimage.sourceforge.net/</a>   | 1991-1998, Thomas G. Lane., 1994 Anthony Dekker        |
| 20. | GCC                                    | 4.8.3, 5.2.0   | GCC Runtime Library Exception 3.1 to GPL 3.0   | <a href="http://gcc.gnu.org/">http://gcc.gnu.org/</a>   | 2004-2013 Free Software Foundation, Inc                |
| 21. | GDK-Pixbuf                             | 2.0, 2.30.8    | GNU Library General Public License v2 or later | <a href="http://www.gnome.org/">http://www.gnome.org/</a>   | 2003 The Free Software Foundation                      |
| 22. | GENIVI Audio Manager                   | 3.2,1.1, 4.2   | Mozilla Public License 2.0                     | <a href="https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager">https://at.projects.genivi.org/wiki/display/PROJ/Audio+Manager</a>               | 2012 Continental Automotive Systems, Inc, 2012, BMW AG |
| 23. | GENIVI Diagnostic Log and Trace Daemon | 2.16.0         | Mozilla Public License 2.0                     | <a href="http://projects.genivi.org/diagnostic-log-trace/">http://projects.genivi.org/diagnostic-log-trace/</a>   | 2011-2015, BMW AG                                      |
| 24. | GENIVI IVI Layer Management            | 0.9.9, 1.2.0   | Apache License 2.0                             | <a href="https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management">https://at.projects.genivi.org/wiki/display/PROJ/IVI+Layer+Management</a> | 2010, 2011 BMW Car IT GmbH, 2012, NVIDIA CORPORATION   |

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


|     |   |                             |   |   |   |
|-----|---|-----------------------------|---|---|---|
| 25. | GLib  | 2.0.0,<br>2.32.4,<br>2.44.1 | GNU Library<br>General Public<br>License v2 or later  | <a href="http://library.gnome.org/devel/glib/">http://library.gnome.org/devel/glib/</a>   | 2010 Codethink Limited  |
| 26. | GNU C Library<br>- glibc                            | 2.22, 2.19                  | GNU Lesser General<br>Public License v2.1<br>or later | <a href="http://www.gnu.org/software/libc/libc.html">http://www.gnu.org/software/libc/libc.html</a>                                   | 2007-2013 Free Software Foundation, Inc. 1983, 1989, 1993 The Regents of the University of California. All rights reserved.   |
| 27. | GStreamer   | 0.10.36,<br>0.10            | GNU Library<br>General Public<br>License v2 or later  | <a href="http://gstreamer.freedesktop.org/modules/">http://gstreamer.freedesktop.org/modules/</a>                                     | 1999, 2000 Erik Walthinsen <omega@cse.ogi.edu><br><br>2000 Wim Taymans <wtay@chello.be>   |
| 28. | HarfBuzz  | 1.3.1,<br>1.0.2,<br>0.9.18  | MIT License   | <a href="http://freedesktop.org/wiki/Software/HarfBuzz">http://freedesktop.org/wiki/Software/HarfBuzz</a>                             | 2007 Chris Wilson, 2009, 2010 Red Hat, Inc. 2011, 2012 Google, Inc  |
| 29. | ICU -<br>International<br>Components<br>for Unicode | 55.1,<br>4.6.1              | ICU License   | <a href="http://www-306.ibm.com/software/globalization/icu/index.jsp">http://www-306.ibm.com/software/globalization/icu/index.jsp</a> | Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved. Copyright 2007 Google Inc. All Rights Reserved, 1991-2011 Unicode |
| 30. | IPTables  | 1.4.21                      | GNU General Public<br>License v2.0 or later           | <a href="http://www.netfilter.org/">http://www.netfilter.org/</a>   | Copyright (C) 2016 Robert Bosch Car Multimedia GmbH   |
| 31. | JSON-C  | 0.12.0                      | MIT License   | <a href="http://oss.metaparadigm.com/json-c/">http://oss.metaparadigm.com/json-c/</a>   | Copyright (c) 2004, 2005 Metaparadigm Pte. Ltd.<br><br>Michael Clark <michael@metaparadigm.com><br><br>Copyright (c) 2009 Hewlett-Packard Development Company, L.P      |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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| 32. | jsoncpp                   | 1.7.7          | MIT License                                     | <a href="http://sourceforge.net/projects/jsoncpp/">http://sourceforge.net/projects/jsoncpp/</a>                       | 2007-2010 Baptiste Lepilleur,   |
| 33. | Khronos Group - OpenGL ES | 3.0, 2.0       | MIT License                                     | <a href="http://www.khronos.org/opengles/">http://www.khronos.org/opengles/</a>                                       | 2007-2013 The Khronos Group Inc;<br><br>Confirmed<br>By:Schoenfelder, Thorsten (ADITG/SW2)<br>[tschoenfelder@de.adit-jv.com]  |
| 34. | Kmod                      | 4,21           | GNU Lesser General Public License v2.1 or later | <a href="https://www.kernel.org/pub/linux/utils/kernel/kmod/">https://www.kernel.org/pub/linux/utils/kernel/kmod/</a> | 2011-2013 ProFUSION embedded systems  |
| 35. | Lib Cap                   | 2.24           | BSD 3-clause "New" or "Revised" License         | <a href="http://sites.google.com/site/fullycapable/">http://sites.google.com/site/fullycapable/</a>                   | Copyright (C) 1997 Aleph One Copyright (C) 1997-8,2008 Andrew G. Morgan <morgan@kernel.org>   |
| 36. | libblkid                  | NA             | GNU Lesser General Public License v2.1 or later | <a href="http://linux.die.net/man/3/libblkid">http://linux.die.net/man/3/libblkid</a>                                 | Copyright (C) 2001 Andreas Dilger Copyright (C) 2003 Theodore Tso Copyright (C) 2008 Karel Zak <kzak@redhat.com>  |
| 37. | libdrm                    | 2.4.46, 2.4.62 | MIT License                                     | <a href="http://dri.freedesktop.org/wiki/">http://dri.freedesktop.org/wiki/</a>                                       | 2013-2014 Mentor Graphics 1999 Precision Insight, Inc., Cedar Park, Texas. 2000 VA Linux Systems, Inc., Sunnyvale, California. All rights reserved. 2007 Dave Airlie <airlied@linux.ie> |
| 38. | libgcrypt                 | 1.5.3, 1.6.3   | GNU Lesser General Public License v2.1 or later | <a href="http://www.gnupg.org">http://www.gnupg.org</a>   | Copyright (C) 1998- 2012 Free Software Foundation, Inc. Copyright (C) 2012, 2013 g10 Code GmbH  |

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|-----|-------------------------|----------------|---|---|--|
| 39. | Libgpg-error Lib        | 1.12, 1.19     | GNU Lesser General Public License v2.1 or later | <a href="http://www.gnupg.org/">http://www.gnupg.org/</a>   | Copyright (C) 2003, 2004, 2010, 2013 g10 Code GmbH   |
| 40. | libjpeg                 | 9a,8b,8d,9     | Independent JPEG Group License                  | <a href="http://www.ijg.org/">http://www.ijg.org/</a>   | Copyright (C) 1994-1997, Thomas G. Lane  |
| 41. | libmtp                  | 1.1.6, 1.1.5   | GNU Library General Public License v2 or later  | <a href="http://sourceforge.net/projects/libmtp/">http://sourceforge.net/projects/libmtp/</a>   | Copyright (C) 2005-2012 Linus Walleij <triad@df.lth.se><br>Copyright (C) 2005-2008 Richard A. Low <richard@wentnet.com><br>Copyright (C) 2007 Ted Bullock <tbullock@canada.com><br>Copyright (C) 2008 Florent Mertens <flomertens@gmail.com> |
| 42. | libnl - Netlink Library | 3.2.25         | GNU Lesser General Public License v2.1 or later | <a href="http://www.infradead.org/~tgr/libnl/">http://www.infradead.org/~tgr/libnl/</a>   | Copyright © 2003-2011 Thomas Graf <tgraf@suug.ch>  |
| 43. | libsigs++               | 2.2.11         | GNU Lesser General Public License v2.1 or later | <a href="http://libsigs.c.sourceforge.net/">http://libsigs.c.sourceforge.net/</a>   | 2002, The libsigs++ Development Team   |
| 44. | Libsndfile              | 1.0.27, 1.0.25 | GNU Lesser General Public License v2.1 or later | <a href="http://www.mega-nerd.com/libsndfile/">http://www.mega-nerd.com/libsndfile/</a>   | Copyright (C) 1999-2011 Erik de Castro Lopo <erikd@mega-nerd.com>  |
| 45. | LIBTAGINFO              | 0.1.6          | GNU Lesser General Public License v2.1 only     | <a href="https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master">https://bitbucket.org/shuerhaaken/libtaginfo/src/4c8c4f839907cd37731963fb7db2ca7a8bc84b38?at=master</a> | 2013 Jörn Magens   |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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|-----|----------------|--------------------------|---|---|--|
| 46. | LIBUNIBREAK    | 2.1                      | zlib License                                    | <a href="http://vimadgets.sourceforge.net/libunibreak/">http://vimadgets.sourceforge.net/libunibreak/</a>   | 2008-2011 Wu Yongwei, 2012 Tom Hacohen<br><tom@stosb.com>  |
| 47. | Libunwind      | Unspecified,<br>1.1      | MIT License                                     | <a href="http://savannah.nongnu.org/projects/libunwind/">http://savannah.nongnu.org/projects/libunwind/</a> | (C) 2008 CodeSourcery<br>Copyright (C) 2002-2004 Hewlett-Packard Co  |
| 48. | libusb         | 1.0,<br>1.0.19,<br>0.1.5 | GNU Lesser General Public License v2.1 or later | <a href="http://libusb.org/">http://libusb.org/</a>   | Copyright © 2001 Johannes Erdfelt<br><johannes@erdfelt.com><br>Copyright © 2007-2008 Daniel Drake<br><dsd@gentoo.org><br>Copyright © 2012 Pete Batard <pete@akeo.ie><br>Copyright © 2012 Nathan Hjelm  |
| 49. | libxml2        | 2.9.2,<br>2.9.8          | MIT License                                     | <a href="http://xmlsoft.org/">http://xmlsoft.org/</a>   | 2000, 2012 Bjorn Reese and Daniel Veillard   |
| 50. | Linux Kernel   | 3.14.79                  | GNU General Public License v2.0 only            | <a href="http://www.kernel.org/">http://www.kernel.org/</a>   | 1999-2010 David Woodhouse, Linux Kernel Organization, Inc, Copyright (C) 2001 by Andreas Gruenbacher<br><a.gruenbacher@computer.org> Copyright © 2001-2002 Silicon Graphics, Inc. All Rights Reserved.<br>Copyright © 2004 Red Hat, Inc., James Morris<br><jmorris@redhat.com> |
| 51. | litehtml       | Unspecified              | BSD 3-clause "New" or "Revised" License         | <a href="http://code.google.com/p/litehtml/">http://code.google.com/p/litehtml/</a>                         | Copyright (C) 1994-1997, Thomas G. Lane.   |
| 52. | Lua - Post 4.x | 5.2.3, 5.3.3             | Lua 5.0 License                                 | <a href="http://www.lua.org/">http://www.lua.org/</a>   | 1994-2016 Lua.org, PUC-Rio   |

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|-----|---|-----------------------|--|---|--|
| 53. | lxc   | Unspecified           | GNU Lesser General Public License v2.1 or later    | <a href="http://github.com/lxc/lxc/">http://github.com/lxc/lxc/</a>   | Copyright IBM Corp. 2007, 2008   |
| 54. | mDNSResponder                                 | Unspecified, 625.41.2 | Apache License 2.0                                 | <a href="http://github.com/Sha0/mDNSResponder/">http://github.com/Sha0/mDNSResponder/</a>                               | 2003-2013 Apple Computer, Inc. All rights reserved   |
| 55. | mosquitto: an mqtt message broker             | 1.3.4                 | BSD 3-clause "New" or "Revised" License            | <a href="https://launchedpad.net/mosquitto">https://launchedpad.net/mosquitto</a>                                       | Copyright (c) 2010-2014 Roger Light<br><roger@atchoo.org> All rights reserved  |
| 56. | mosquitto: an mqtt message broker             | 1.4.13                | Eclipse Public License 1.0                         | <a href="https://launchedpad.net/mosquitto">https://launchedpad.net/mosquitto</a>                                       | Copyright © 2010-2014 Roger Light<br><roger@atchoo.org> All rights reserved  |
| 57. | NeuQuant - Neural Image Quantization          | Unspecified           | NeuQuant Neural-Net Quantization Algorithm License | <a href="http://members.ozemail.com.au/~d Dekker/NEUQUANT.HTM">http://members.ozemail.com.au/~d Dekker/NEUQUANT.HTM</a> | 1994 Anthony Dekker  |
| 58. | OpenSSL                                       | NA, 1.0.2n, 1.0.2q    | OpenSSL Combined License                           | <a href="http://www.openssl.org/">http://www.openssl.org/</a>   | Copyright (C) 1995-1998 Eric Young All rights reserved   |
| 59. | PNG reference library: libpng - libpng-stable | 1.6.32, 1.6.19        | libpng License                                     | <a href="http://sourceforge.net/projects/libpng/">http://sourceforge.net/projects/libpng/</a>                           | Copyright © 1998-2012 Glenn Randers-Pehrson<br>Copyright © 1998-2013 Glenn Randers-Pehrson *<br>Version 0.96 Copyright © 1996, 1997 Andreas Dilger<br>Version 0.88 Copyright © 1995, 1996 Guy Eric Schalnat, Group 42, Inc |
| 60. | protobuf                                      | 2.3.0, 3.0.0          | BSD 3-clause "New" or "Revised" License            | <a href="http://github.com/localshred/protobuf/">http://github.com/localshred/protobuf/</a>                             | Copyright 2008 Google Inc  |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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| 61. | QRCode                         | 0.0.1  | MIT License  | <a href="https://github.com/ricmoo/QRCode">https://github.com/ricmoo/QRCode</a>   | Copyright © 2017 Richard Moore                                       |
| 62. | qt5                            | 5.6.1  | LGPL 2.1 or later with Qt Company LGPL Exception version 1.1 | <a href="http://github.com/qtproject/qt5/">http://github.com/qtproject/qt5/</a>   | © 2015 The Qt Company Ltd.   |
| 63. | RBTree algorithm               | Unspecified  | Public Domain  | <a href="http://eternallyconfuzzled.com/tuts/datastructures/jsw_tut_rbtree.aspx">http://eternallyconfuzzled.com/tuts/datastructures/jsw_tut_rbtree.aspx</a> | Socionext Embedded Software Austria GmbH (SESA) All rights reserved. |
| 64. | RealVNC                        | Unspecified  | VNC END USER LICENSE AGREEMENT                               | <a href="http://www.realvnc.com/">http://www.realvnc.com/</a>   | 2002-2018 RealVNC Ltd. All Rights Reserved                           |
| 65. | SQLite                         | 3.8.7.4, 3.8.7.2, 3.13.0, 3.21.0, 3.26.0, 3.15.0, 3.7.15 | Public Domain  | <a href="http://www.sqlite.org/">http://www.sqlite.org/</a>   | No Copyright   |
| 66. | systemd                        | Unspecified, 225   | GNU Lesser General Public License v2.1 or later              | <a href="http://freedesktop.org/wiki/Software/systemd/">http://freedesktop.org/wiki/Software/systemd/</a>   | 2013 Lennart Poettering  |
| 67. | Tadween                        | 1.0.4  | MIT License  | <a href="http://sourceforge.net/projects/tadween/">http://sourceforge.net/projects/tadween/</a>   | 2009 Mohammad Hejazi   |
| 68. | TagLib Audio Meta-Data Library | Unspecified  | GNU Lesser General Public License v2.1 or later              | <a href="http://taglib.github.com/">http://taglib.github.com/</a>   | 2008 by Scott Wheeler  |
| 69. | Templatized C++ Command        | 1.2.1  | MIT License  | <a href="http://sourceforge.net/">http://sourceforge.net/</a>   | Copyright © 2003, Michael E. Smoot . All                             |

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|     | Line Parser  |                     |  | projects/tclap/   | rights reserved. Copyright © 2003, Michael E. Smoot . Copyright © 2004, Michael E. Smoot, Daniel Aarno All rights reserved Confirmed By |
| 70. | The FreeType Project - freetype2                           | 2.4.10, 2.5.3       | Freetype Project License                       | <a href="http://sourceforge.net/projects/freetype/">http://sourceforge.net/projects/freetype/</a>   | Copyright 1996-2015 by David Turner, Robert Wilhelm, and Werner Lemberg.  |
| 71. | TinyXML  | 2.6.2, 3.0.0        | zlib License                                   | <a href="http://sourceforge.net/projects/tinyxml/">http://sourceforge.net/projects/tinyxml/</a>   | 2000-2006 Lee Thomason  |
| 72. | Totem Playlist Parser                                      | 3.4.5               | GNU Library General Public License v2 or later | <a href="https://developer.gnome.org/totem-pl-parser/stable/index.html">https://developer.gnome.org/totem-pl-parser/stable/index.html</a> | 2009, Nokia, 2002, 2003, 2004, 2005, 2006 Bastien Nocera, Copyright (C) 2003 Colin Walters <walters@verbum.org>                         |
| 73. | util-unix-ng   | 2.26.2              | BSD 3-clause "New" or "Revised" License        | <a href="https://www.kernel.org/pub/linux/utils/util-linux/">https://www.kernel.org/pub/linux/utils/util-linux/</a>                       | 1996, 1997, 1998 Theodore Ts'o  |
| 74. | Wayland  | Unspecified, 1.14.0 | MIT License                                    | <a href="http://cgit.freedesktop.org/~krh/wayland/">http://cgit.freedesktop.org/~krh/wayland/</a>   | Copyright (C) 2011 Benjamin Franzke<br>Copyright (C) 2010 Intel Corporation<br>Copyright (C) 2012 Collabora, Ltd                        |
| 75. | wpa_supplicant - IEEE 802.1X, WPA, WPA2, RSN, IEEE 802.11i | 2.4, 2.6            | BSD 3-clause "New" or "Revised" License        | <a href="http://hostap.epitest.fi/wpa_supplicant/">http://hostap.epitest.fi/wpa_supplicant/</a>   | Copyright © 2004-2006, Jouni Malinen <j@w1.fi>  |
| 76. | yajl   | 2.1.0               | ISC License                                    | <a href="http://github.com/lloyd">http://github.com/lloyd</a>   | Copyright 2007-2014,  |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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|     |                             |   |   | /yajl/  | Lloyd Hilaiel   |
| 77. | zlib                        | 1.2.8,<br>1.2.5,<br>1.2.11,<br>1.2.3,1.<br>1.4,1.2.<br>3, | zlib License  | <a href="http://www.zlib.net/">http://www.zlib.net/</a>   | 1995-2013 Jean-loup Gailly and Mark Adler   |
| 78. | cryptodev-linux             | 1.8   | GNU General Public License v2.0 or later<br>Public Domain | <a href="http://cryptodev-linux.org/">http://cryptodev-linux.org/</a>   | Copyright © 2004 Michal Ludvig<br><mludvig@logix.net.nz>, SuSE Labs, Copyright © 2010 Phil Sutter, Copyright © Michal Ludvig, Copyright (C) Angelos D. Keromytis, Copyright © 2009,2010,2011 Nikos Mavrogiannopoulos <nnav@gnutls.org>, Copyright (C) 2011 Free Software Foundation, Inc. Copyright © 2011, 2012 OpenSSL Software Foundation, Inc. Copyright © 2011 Maxim Levitsky. |
| 79. | GCC                         | 3.0   | GNU General Public License v2.0 or later                  | <a href="http://gcc.gnu.org/">http://gcc.gnu.org/</a>   | Copyright 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006 Free Software Foundation, Inc. and some other contributors.  |
| 80. | Kernel Configuration System | 0.1.1   | GNU General Public License v2.0 or later                  | <a href="http://savannah.nongnu.org/projects/kernelconf/">http://savannah.nongnu.org/projects/kernelconf/</a> | Copyright © 2017 Free Software Foundation, Inc.   |
| 81. | SELinux reference           | 20060307  | GNU General Public License v2.0 or later                  | <a href="http://sourceforge.net/">http://sourceforge.net/</a>   | Copyright (C) Chris PeBenito  |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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| 82. | 7-Zip - LZMA<br>SDK               | 9.20           | Public Domain   | <a href="http://sourceforge.net/projects/sevenzips/">http://sourceforge.net/<br/>projects/sevenzips/</a>        | Copyright (C) 1999-2005,<br>2016 Igor Pavlov.<br>Copyright (C) 2007-2009<br>Industrie Dial Face S.p.A.   |
| 83. | Gen.3<br>Freescale i.MX<br>u-boot | 2013.0<br>1.01 | GNU General Public<br>License v2.0 or later           | <a href="http://www.denx.de/wiki/U-Boot/WebHome">http://www<br/>.denx.de/wi<br/>ki/U-<br/>Boot/WebH<br/>ome</a> | Copyright (C) 2000-2012<br>Wolfgang Denk, DENX<br>Software Engineering,<br>wd@denx.de. and some<br>more contributors.<br>Copyright (C) 2009<br>Freescale Semiconductor,<br>Inc.  |
| 84. | ACL                               | 2.2.52         | GNU Lesser General<br>Public License v2.1<br>or later | <a href="https://savannah.nongnu.org/projects/acl">https://sava<br/>nnah.nongn<br/>u.org/projec<br/>ts/acl</a>  | Copyright (C)<br>1999,2000,2002,2003,2007<br>,2011 Andreas<br>Gruenbacher. Copyright (C)<br>2001-2002 Silicon<br>Graphics, Inc. All Rights<br>Reserved. Copyright ©<br>2002 Silicon Graphics, Inc.<br>All Rights Reserved.<br>Copyright (C) SuSE Linux<br>AG. Copyright (C) 1999-<br>2002 Andreas<br>Gruenbacher,<br><a.gruenbacher@bestbits.<br>at> Copyright (C) 1999-<br>2000 Andreas<br>Gruenbacher,<br><a.gruenbacher@bestbits.<br>at>. |
| 85. | Alsa Plugins                      | 1.0.29         | GNU Lesser General<br>Public License v2.1<br>or later | <a href="https://www.alsa-project.org/wiki/ALSA_L">https://ww<br/>w.alsa-<br/>project.org/<br/>wiki/ALSA_L</a>  | Copyright © 2008 by<br>Sjoerd Simons<br><sjoerd@luon.net>,<br>Copyright © 2006 by<br>Pierre Ossman   |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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|-----|------------|--------|--|---|---|
|     |            |        |  | library_API   | <ossman@cendio.se>.   |
| 86. | 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 © by Abramo Bagnara, Copyright © 1999-2000,2008,2010 by Jaroslav Kysela, Copyright (C) 2003 Greg Kroah-Hartman, Copyright (C) 2004-2006 Kay Sievers, Copyright © 2004-2006 Clemens Ladisch, Copyright © 1998,1999 Tim Janik, Copyright © 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.   |
| 87. | 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. All Rights Reserved, Copyright 2012,2013 Intel Corporation.All Rights Reserved, Copyright 2010-2016 VMware, Inc.All Rights Reserved, Copyright 2011-2014 Jose Fonseca.All Rights Reserved, Copyright 2011 LunarG, Inc.All Rights Reserved, Copyright 2015 Alexander Trukhin, Copyright 2013 Samsung,Contributed by Eugene Velesevich,All Rights Reserved. Copyright 2006 Keith Packard and Carl Worth, Copyright 2011 Zack Rusin, Copyright 2004 |

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |


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|-----|---------------------------------------|--------|---|---|---|
|     |                                       |        |   |   | IBM Corporation.  |
| 88. | 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 (faith@acm.org).  |
| 89. | Atomic_ops                            | 7.4.0  | MIT License                                     | <a href="https://docs.oracle.com/cd/E36784_01/html/E36874/atomic-ops-3c.html">https://docs.oracle.com/cd/E36784_01/html/E36874/atomic-ops-3c.html</a> | Copyright © 1991-1994 by Xerox Corporation. All rights reserved. Copyright © 1996-1999 by Silicon Graphics. All rights reserved. Copyright © 1999-2003 by Hewlett-Packard Company. All rights reserved. |
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|     |                    |       |   |   | Technologies.   |
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| 276 | XZ Utils                          | 5.2.1       | Public Domain                            | <a href="http://tukaani.org/xz/">http://tukaani.org/xz/</a>   | Author - Lasse Collin.  |
| 277 | 7 Zip - LZMA SDK                  | Unspecified | Public Domain                            | <a href="http://www.7zip.org/sdk.html">http://www.7zip.org/sdk.html</a>   | Igor Pavlov   |
| 278 | cryptopp                          | Unspec      | Public Domain                            | <a href="http://github.com/mmo">http://github.com/mmo</a>   | Written by->Wei Dai   |

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| 288 | Traffic Signs Germany                      | since 2009  | Public Domain                                      | <a href="http://de.wikipedia.org/wiki/Bildtafel_der_Verkehrsschilder_in_der_Bundesrepublik_Deutschland_seit_2009">http://de.wikipedia.org/wiki/Bildtafel_der_Verkehrsschilder_in_der_Bundesrepublik_Deutschland_seit_2009</a> | copyright© 2015 Robert Bosch Car Multimedia GmbH                           |
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| 290 | Utm  | Unspecified | Utm License  | <a href="http://alephnull.net/software/gis/UTM_WGS84_C_plus_plus.shtml">http://alephnull.net/software/gis/UTM_WGS84_C_plus_plus.shtml</a>   |  |
| 291 | XML parser generator                       | Unspecified | BSD 3-clause "New" or "Revised" License            | <a href="http://sourceforge.net/projects/fat-hom/">http://sourceforge.net/projects/fat-hom/</a>   | Copyright © 2002, Frank Vanden Berghen                                     |
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|     |                           |          |                                   | s.net/tools/xmlParser.html  |   |
| 295 | gumbo-parser              | NA       | Apache License 2.0                | <a href="http://github.com/google/gumbo-parser/">http://github.com/google/gumbo-parser/</a>       | Copyright 2012 Google Inc. All Rights Reserved.   |
| 296 | lua-5                     | 2.0-beta | MIT License                       | <a href="http://github.com/fanf2/lua-5/">http://github.com/fanf2/lua-5/</a>                       | 1994-2016 Lua.org, PUC-Rio  |
| 297 | lz4 Compression algorithm | r130     | BSD 2-clause "Simplified" License | <a href="http://github.com/Cyan4973/lz4/">http://github.com/Cyan4973/lz4/</a>                     | Copyright (C) 2011-2014, Yann Collet.   |
| 298 | RapidXml                  | 1.13     | MIT License                       | <a href="http://sourceforge.net/projects/rapidxml/">http://sourceforge.net/projects/rapidxml/</a> | - Copyright © 2006, 2007 Marcin Kalicinski  |
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##### v. 2.1

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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

<http://www.freetype.org>

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

## 2.17 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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When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
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|--|-----------------------------------|--------------------------------|
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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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|--|-----------------------------------|--------------------------------|
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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.)

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.

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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.

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|--|-----------------------------------|--------------------------------|
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non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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 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.)

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.

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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.)

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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 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

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.


b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
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| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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one line to give the library's name and an idea of what it does.

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|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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Also add information on how to contact you by electronic and paper mail.


You should also get your employer (if you work as a programmer) or your school, if any, to sign a  
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signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

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|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

## 2.23 GNU Library General Public License v2 or later

GNU Library General Public License  
Version 2, June 1991

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[This is the first released version of the Library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

### Preamble


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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library after making changes to the library and

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.


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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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|--|-----------------------------------|--------------------------------|
|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.


1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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|--|-----------------------------------|--------------------------------|
|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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 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.)


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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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.

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 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.

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

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

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) 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.

c) 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.


d) 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 source code 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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

|  <b>BOSCH</b> | <b>OSS Disclosure Document</b>    | <b>DATE</b>                    |
|--|-----------------------------------|--------------------------------|
| <b>XC_CI1</b>  | <b>XC_AI_PRJ_RN_AIVI_Scope2.1</b> | <b>8<sup>th</sup> Mar 2021</b> |

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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### NeuQuant Neural-Net Quantization Algorithm License

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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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.

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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.

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- 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++**

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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### **3.2.18 portaudio**

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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 miniupnp**

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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://libtomcrypt.com>

### **3.2.22 LibTomMath**

LibTomMath, multiple-precision integer library -- Tom St Denis

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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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### **3.2.28.1 RealVNC modifications to WPA Supplicant**

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<http://w1.fi/cgiit/hostap/patch/?id=f2b3acc9d5.2.b91fbaccfc9dd8d408>

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### **3.2.28.2 ath9k\_faf1dc64\_backport.patch**

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### **3.2.28.3 python-psutil\_2.1.3.bb**


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### **3.2.30 VNC Wi-Fi Display i.MX6 sample decoder**


The information in this section expands upon that summarized in section 6.2, *VNC Wi-Fi Display i.MX6 sample decoder*.

### **3.2.31 mxcfb.h**

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### **3.2.32 axTLS**

axTLS Embedded SSL

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### **3.2.32 RealVNC modifications to axTLS**

Some unwanted type and function definitions have been removed.