Vertiv™ Avocent® IPUHD 4K IP KVM Device

Open Source Software Notice

AUGUST 2023

Section Outline
1. Overview
2. Open Source Application Listings
3. Open Source License Terms and Conditions

1. Overview
This Software Notice provides a listing of the open source software components provided with the Vertiv™ Avocent® IPUHD 4K IP KVM device. All open source software is subject to the terms and conditions of its applicable license.

2. Open Source Application Listings
The following table lists the open source software licenses as well as the components of each.

Vertiv™ Avocent® IPUHD 4K IP KVM Device Licenses and Components

<table>
<thead>
<tr>
<th>LICENSE</th>
<th>COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFL-2.1</td>
<td>dbus</td>
</tr>
<tr>
<td></td>
<td>dbus-lib</td>
</tr>
<tr>
<td></td>
<td>clear-once phospor-debug-collector-monitor phospor-logging phospor-state-manager-discover</td>
</tr>
<tr>
<td></td>
<td>dbus-broker phospor-debug-collector-scripts phospor-logging-base phospor-state-manager-host</td>
</tr>
<tr>
<td></td>
<td>dbus-perms phospor-fan-control phospor-mapper phospor-state-manager-host-check</td>
</tr>
<tr>
<td>Apache-2.0</td>
<td>ffdc phospor-fan-monitor phospor-network phospor-state-manager-obmc-targets</td>
</tr>
<tr>
<td></td>
<td>first-boot-set-hostname phospor-fan-presence-tach phospor-rsyslog-config phospor-state-manager-reset-sensor-states</td>
</tr>
<tr>
<td></td>
<td>gpioplus phospor-health-monitor phospor-sel-logger phospor-state-manager-systemd-target-monitor</td>
</tr>
<tr>
<td></td>
<td>libmapper phospor-hwmon phospor-settings-manager phospor-systemd-policy</td>
</tr>
<tr>
<td></td>
<td>obmc-console phospor-image-signing phospor-snmp phospor-time-manager</td>
</tr>
<tr>
<td></td>
<td>obmc-phosphor-power phospor-inventory-manager phospor-software-manager-download-mgr phospor-user-manager</td>
</tr>
<tr>
<td>LICENSE</td>
<td>COMPONENTS</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Apache-2.0 (continued) | phosphor-certificate-manager  
phosphor-ldap  
phosphor-software-manager-updater  
sdbusplus  
phosphor-dbus-interfaces  
phosphor-led-manager-faultmonitor  
phosphor-software-manager-version  
sdeventplus  
phosphor-dbus-monitor  
phosphor-led-manager-ledmanager  
phosphor-state-manager-bmc  
slpd-lite  
phosphor-debug-collector-dreport  
phosphor-led-sysfs  
phosphor-state-manager-chassis  
stdplus  
vertiv-dbus-interfaces |
| BSD             | arm-trusted-firmware  
redis  
xilinx-bootbin |
| BSD & MIT       | net-snmp  
net-snmp-lib-agent  
net-snmp-lib-mibs  
net-snmp-libs  
net-snmp-client  
net-snmp-lib-helper  
net-snmp-lib-netsnmp  
net-snmp-mibs |
| BSD | Artistic-1.0 | shadow  
shadow-base |
| BSD | GPLv2 | libcap |
| BSD-1-Clause    | libwrap |
| BSD-2-Clause    | linenoise  
lua-resty-http  
lua-resty-random  
onopenresty |
| BSD-3-Clause    | libpcre  
libtirpc  
miniupnpd  
rpcbind  
util-linux-libuuid |
| BSL-1.0 & MIT & Python-2.0 | boost-context  
boost-coroutine  
boost-thread |
| CLOSED + Xilinx IP | external-hdf |
| GPL-2.0         | ndisc6 |
| GPL-2.0+        | stm32flash |
| GPL-2.0+ & LGPL-2.1+ | kmod |
| GPL-3.0-with-GCC-exception | libgcc  
libstdc++ |
| GPLv2           | base-files  
kernel-module-g-edm-kbdmouse-5.4.0-xilinx-v2020.1  
kernel-module-mwifie-5.4.0-xilinx-v2020.1  
kernel-module-u-ether-5.4.0-xilinx-v2020.1 |
<table>
<thead>
<tr>
<th>LICENSE</th>
<th>COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPLv2 (continued)</td>
<td>base-passwd</td>
</tr>
<tr>
<td></td>
<td>bridge-utils</td>
</tr>
<tr>
<td></td>
<td>e2fsprogs-e2fsck</td>
</tr>
<tr>
<td></td>
<td>kernel-base</td>
</tr>
<tr>
<td></td>
<td>kernel-module-video-capture-5.4.0-xilinx-v2020.1</td>
</tr>
<tr>
<td></td>
<td>kernel-module-video-command-buffer-5.4.0-xilinx-v2020.1</td>
</tr>
<tr>
<td></td>
<td>kernel-module-video-compressor-5.4.0-xilinx-v2020.1</td>
</tr>
<tr>
<td>GPLv2 &amp; bzip2-1.0.4</td>
<td>busybox</td>
</tr>
<tr>
<td>GPLv2 &amp; LGPLv2</td>
<td>fuse</td>
</tr>
<tr>
<td>GPLv2 &amp; LGPLv2 &amp; BSD &amp; MIT</td>
<td>libcomerr</td>
</tr>
<tr>
<td>GPLv2 &amp; LGPLv2.1</td>
<td>glibc</td>
</tr>
<tr>
<td></td>
<td>libmobiledevice</td>
</tr>
<tr>
<td></td>
<td>libplist</td>
</tr>
<tr>
<td>GPLv2+</td>
<td>ethtool</td>
</tr>
<tr>
<td></td>
<td>i2c-tools</td>
</tr>
<tr>
<td></td>
<td>iptables</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ip6t-ah</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ip6t-dnat</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ip6t-dnpt</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ip6t-dist</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ip6t-eui64</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ipt-redirect</td>
</tr>
<tr>
<td>LICENSE</td>
<td>COMPONENTS</td>
</tr>
<tr>
<td>---------</td>
<td>------------</td>
</tr>
<tr>
<td>GPLv2+ (continued)</td>
<td>iptables-module-ipt-reject iptables-modules iptables-module-xt-cgroup iptables-module-xt-comment</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ipt-snat iptables-module-xt-addrtype iptables-module-xt-checksum iptables-module-xt-connbytes</td>
</tr>
<tr>
<td></td>
<td>iptables-module-ipt-ttl iptables-module-xt-audit iptables-module-xt-classify iptables-module-xt-connlimit</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-conncmark iptables-module-xt-hashlimit iptables-module-xt-mac iptables-module-xt-policy</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-consecmark iptables-module-xt-helper iptables-module-xt-mark iptables-module-xt-quota</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-contrack iptables-module-xt-hmark iptables-module-xt-multiport iptables-module-xt-rateest</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-cpu iptables-module-xt-idletimer iptables-module-xt-nfacct iptables-module-xt-recent</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-ct iptables-module-xt-ipcomp iptables-module-xt-nflog iptables-module-xt-rpfilter</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-dccp iptables-module-xt-iprange iptables-module-xt-nfqueue iptables-module-xt-sctp</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-devgroup iptables-module-xt-ipv6 iptables-module-xt-osf iptables-module-xt-secmark</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-dscp iptables-module-xt-led iptables-module-xt-owner iptables-module-xt-set</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-ecn iptables-module-xt-length iptables-module-xt-physdev iptables-module-xt-socket</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-esp iptables-module-xt-limit iptables-module-xt-pkttype iptables-module-xt-standard</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-statistic iptables-module-xt-tcpoptstrip iptables-module-xt-trace lrzsz</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-string iptables-module-xt-tee iptables-module-xt-u32 systemd-serialgetty</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-synproxy iptables-module-xt-time iptables-module-xt-udp u-boot-fw-utils-xlnx</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-tcp iptables-module-xt-tos lrzsz u-boot-xlnx</td>
</tr>
<tr>
<td></td>
<td>iptables-module-xt-tcpmss iptables-module-xt-tproxy libpci update-alternatives-opkg</td>
</tr>
<tr>
<td></td>
<td>update-rc.d xz</td>
</tr>
<tr>
<td>GPLv2+ &amp; LGPLv2.1+</td>
<td>libcap-ng</td>
</tr>
<tr>
<td>GPLv2+ &amp; LGPLv2.1+ &amp; BSD-3-Clause &amp; BSD-4-Clause</td>
<td>util-linux-agetty util-linux-mount util-linux-sulogin util-linux-umount</td>
</tr>
<tr>
<td></td>
<td>util-linux-fsck</td>
</tr>
<tr>
<td>GPLv2+</td>
<td>libjitterentropy pam-plugin-group pam-plugin-nologin pam-plugin-shells</td>
</tr>
<tr>
<td></td>
<td>libpam pam-plugin-keyinit pam-plugin-permit pam-plugin-succeed-if</td>
</tr>
<tr>
<td></td>
<td>libpam-runtime pam-plugin-lastlog pam-plugin-pwhistory pam-plugin-tally2</td>
</tr>
<tr>
<td>LICENSE</td>
<td>COMPONENTS</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>GPLv2+</td>
<td>BSD (continued)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>GPLv3 &amp; GPLv2 &amp; LGPLv2.1</td>
<td>usbmuxd</td>
</tr>
<tr>
<td>GPLv3 &amp; LGPLv3</td>
<td></td>
</tr>
<tr>
<td>GPLv3 &amp; LGPLv3 &amp; Apache-2.0</td>
<td>rsyslog</td>
</tr>
<tr>
<td>GPLv3+</td>
<td>bash</td>
</tr>
<tr>
<td>ISC &amp; BSD-3-Clause &amp; BSD-2-Clause &amp; GPLv2+</td>
<td>crone</td>
</tr>
<tr>
<td>LGPL-2.1</td>
<td>libusbmuxd</td>
</tr>
<tr>
<td>LGPL-2.1+</td>
<td>libkmod</td>
</tr>
<tr>
<td>LGPLv2.1</td>
<td>libestr</td>
</tr>
<tr>
<td></td>
<td>libnl</td>
</tr>
<tr>
<td>LGPLv2.1+</td>
<td>avahi-daemon</td>
</tr>
<tr>
<td></td>
<td>cracklib</td>
</tr>
<tr>
<td></td>
<td>libavahi-common</td>
</tr>
<tr>
<td>Libpng</td>
<td>libpng</td>
</tr>
<tr>
<td>MIT</td>
<td>bitstream-extraction</td>
</tr>
<tr>
<td></td>
<td>expat</td>
</tr>
<tr>
<td></td>
<td>fnt</td>
</tr>
<tr>
<td></td>
<td>fsbl</td>
</tr>
<tr>
<td></td>
<td>iniparser</td>
</tr>
<tr>
<td></td>
<td>jansson</td>
</tr>
<tr>
<td></td>
<td>lapis</td>
</tr>
<tr>
<td></td>
<td>u-boot-zynq-scr</td>
</tr>
<tr>
<td>MIT &amp; BSD-3-Clause &amp; BSD-2-Clause &amp; PD</td>
<td>dropbear</td>
</tr>
<tr>
<td>MIT &amp; GPLv2+ &amp; BSD</td>
<td>nfs-utils-client</td>
</tr>
</tbody>
</table>

PROPRIETARY AND CONFIDENTIAL. © 2023 Vertiv Group Corp.
3. Open Source License Terms and Conditions

Specific open source license content (including terms and conditions) are listed in this section.

AFL-2.1 (Academic Free License v2.1) License Information

The Academic Free License v2.1. Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved.

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicensable license to do the following:
   a) to reproduce the Original Work in copies;
   b) to prepare derivative works ("Derivative Works") based upon the Original Work;
   c) to distribute copies of the Original Work and Derivative Works to the public;
   d) to perform the Original Work publicly; and
   e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicensable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License

---

<table>
<thead>
<tr>
<th>LICENSE</th>
<th>COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIT-X</td>
<td>libevdev</td>
</tr>
<tr>
<td>OpenLDAP</td>
<td>openldap</td>
</tr>
<tr>
<td>openssl</td>
<td>libcrypto</td>
</tr>
<tr>
<td></td>
<td>openssl</td>
</tr>
<tr>
<td></td>
<td>openssl-bin</td>
</tr>
<tr>
<td></td>
<td>openssl-conf</td>
</tr>
<tr>
<td>PD</td>
<td>liblzma</td>
</tr>
<tr>
<td>STMicro</td>
<td>cobra-stm32</td>
</tr>
<tr>
<td>Xilinx</td>
<td>cobra-r5dp</td>
</tr>
<tr>
<td>Xilinx IP</td>
<td>axi_usb2_device</td>
</tr>
<tr>
<td></td>
<td>dp_rxSubsystem</td>
</tr>
<tr>
<td>Zlib</td>
<td>libtinyxml2</td>
</tr>
<tr>
<td></td>
<td>zlib</td>
</tr>
</tbody>
</table>
shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately proceeding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, for patent infringement (i) against Licensor with respect to a patent applicable to software or (ii) against any entity with respect to a patent applicable to the Original Work (but excluding combinations of the Original Work with other software or hardware).

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformulated only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.
Apache-2.0 ("Apache License") License Information

The Apache License. Copyright (C) 2004 The Apache Software Foundation. All rights reserved.

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

a. You must give any other recipients of the Work or Derivative Works a copy of this License; and
b. You must cause any modified files to carry prominent notices stating that You changed the files; and
c. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

d. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. **Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

---

**Artistic-1.0 ("The Artistic License") License Information**

The Artistic License. Copyright (C) The Perl Foundation. All rights reserved.

**Preamble**

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

**Definitions:**

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.
c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

   a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

   b) accompany the distribution with the machine-readable source of the Package with your modifications.

   c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

   d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or Perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

BSD-1-Clause License Information
The 1-Clause BSD License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

   THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS AND CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BSD-2-Clause License Information
The 2-Clause BSD License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**BSD-3-Clause License Information**

_The 3-Clause BSD License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved._

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**BSD (BSD-4-Clause) License Information**

_The 4-Clause BSD License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved._

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by Vertiv.
4. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**BSL-1.0 (Boost Software License 1.0) License Information**

_The Boost Software License 1.0. Copyright (C) 2023, Vertiv Group Corp. All rights reserved._

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the “Software”) to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:
The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

bzip2 License Information

The bzip License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgement in the product documentation would be appreciated, but is not required.
3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GPL License Information (Multiple Versions)

Version 1 (GPL-1.0+): Copyright (C) 1989 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 1 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE. For more information, see the entire GNU General Public License in full here: https://www.gnu.org/licenses/gpl-1.0.en.html

Version 2 (GPLv2, GPLv2.0, GPL-2.0, GPLv2+, GPL-2.0+, GPLv2.0+): Copyright (C) June 1991 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 2 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. For more information, see the entire GNU General Public License in full here: https://www.gnu.org/licenses/gpl-2.0.en.html

Version 3 (GPLv3, GPL-3.0, GPLv3+, GPL-3.0+): Copyright (C) 29 June 2007 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. For more information, see the entire GNU General Public License in full here: https://www.gnu.org/licenses/gpl-3.0.en.html

GPLv3 (GPL-3.0) with GCC exception: Copyright (C) 2009 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.
0. 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.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. 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.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

Libpng License Information

Libpng License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

LGPL License Information (Multiple Versions)

Version 2 (GPLv2, LGPLv2+, LGPLv2.0+): Copyright (C) June 1991 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)

This library is free software: you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation, either version 2 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. For more information, see the entire GNU Library General Public License in full here: https://www.gnu.org/licenses/old-licenses/lgpl-2.0.html

Version 2.1 (LGPLv2.1, LGPLv2.1+, LGPL-2.1, LGPL-2.1+): Copyright (C) February 1999 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)

This library is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 2.1 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful
but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. For more information, see the entire GNU Lesser General Public License in full here: https://www.gnu.org/licenses/lgpl-2.1.en.html

Version 3 (LGPLv3, LGPL-3.0, LGPLv3+): Copyright (C) 29 June 2007 Free Software Foundation, Inc. All rights reserved. (http://fsf.org/)
The GNU LGPL license below references version 3 of the GNU GPL license. For more information, see the entire GNU General Public License in full here: https://www.gnu.org/licenses/gpl-3.0.en.html

GNU Lesser General Public License: Copyright (C) 2007, Free Software Foundation, Inc. https://fsf.org/
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.
As used herein, “this License” refers to version 3 of the GNU Lesser General Public License, and the “GNU GPL” refers to version 3 of the GNU General Public License.

“The Library” refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.
An “Application” is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A “Combined Work” is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the “Linked Version”.
The “Minimal Corresponding Source” for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.
The “Corresponding Application Code” for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.
You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.
If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:
a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:
a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
b) Accompany the object code with a copy of the GNU GPL and this license document.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:
a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.
d) Do one of the following:
0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4dI, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

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

6. Revised Versions of the GNU Lesser General Public License.
The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy’s public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

MIT (MIT-x) License Information
The MIT License (MIT). Copyright (C) 2023, Vertiv Group Corp. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

OpenLDAP License Information
The OpenLDAP Public License. Copyright © 1999-2003, The OpenLDAP Foundation, Redwood City, California, USA. All rights reserved.

Redistribution and use of this software and associated documentation (“Software”), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source form must retain copyright statements and notices,

2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and

 PROPRIETARY AND CONFIDENTIAL. © 2023 Vertiv Group Corp. Page 15 of 18
3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific, written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

**OpenSSL License Information**

The OpenSSL License. Copyright (C) 2023, OpenSSL. All rights reserved.

Contents are licensed under the terms of the OpenSSL license available at https://www.openssl.org/source/license.html.

**PD (Pure Data) License Information**

The PD License. Copyright (C) 1996+, Miller Puckette. All rights reserved.

Pure Data (PD) is a visual programming language developed by Miller Puckette in the 1990s for creating interactive computer music and multimedia works. Although Puckette is the main author, PD is an open-source project with a large developer base working on new extensions. PD is released under BSD-3-Clause. The full text of the BSD-3-Clause license is available in that section of this document. Additional information on PD is available here: http://www.puredata.info

**Python-2.0 (Python Software Foundation License v2.0) License Information**

The Python-2.0 License. Copyright (C) 2001-2006, Python Software Foundation. All rights reserved.

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version provided, however, that PSF's notice of copyright, i.e., "Copyright (C) 2001, 2002, 2003, 2004, 2005, 2006 Python Software Foundation All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.
STMicro License Agreement (SLA0048)

The STMicro License. Copyright (C) 2023, Vertiv Group Corp. All rights reserved.

BY INSTALLING COPYING, DOWNLOADING, ACCESSING OR OTHERWISE USING THIS SOFTWARE PACKAGE OR ANY PART THEREOF (AND THE RELATED DOCUMENTATION) FROM STMICROELECTRONICS INTERNATIONAL N.V. SWISS BRANCH AND/OR ITS AFFILIATED COMPANIES (STMICROELECTRONICS), THE RECIPIENT, ON BEHALF OF HIMSELF OR HERSELF, OR ON BEHALF OF ANY ENTITY BY WHICH SUCH RECIPIENT IS EMPLOYED AND/OR ENGAGED AGREES TO BE BOUND BY THIS SOFTWARE PACKAGE LICENSE AGREEMENT.

Under STMicroelectronics’ intellectual property rights and subject to applicable licensing terms for any third-party software incorporated in this software package and applicable Open Source Terms (as defined here below), the redistribution, reproduction and use in source and binary forms of the software package or any part thereof, with or without modification, are permitted provided that the following conditions are met:

1. Redistribution of source code (modified or not) must retain any copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form, except as embedded into microcontroller or microprocessor device manufactured by or for STMicroelectronics or a software update for such device, must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of STMicroelectronics nor the names of other contributors to this software package may be used to endorse or promote products derived from this software package or part thereof without specific written permission.
4. This software package or any part thereof, including modifications and/or derivative works of this software package, must be used and executed solely and exclusively on or in combination with a microcontroller or a microprocessor devices manufactured by or for STMicroelectronics.
5. No use, reproduction or redistribution of this software package partially or totally may be done in any manner that would subject this software package to any Open Source Terms (as defined below).
6. Some portion of the software package may contain software subject to Open Source Terms (as defined below) applicable for each such portion (“Open Source Software”), as further specified in the software package. Such Open Source Software is supplied under the applicable Open Source Terms and is not subject to the terms and conditions of license hereunder. “Open Source Terms” shall mean any open source software which requires as part of distribution of software that the source code of such software is distributed therewith or otherwise made available, or open source license that substantially complies with the Open Source definition specified at www.opensource.org and any other comparable open source license such as for example GNU General Public License (GPL), Eclipse Public License (EPL), Apache Software License, BSD license and MIT license.
7. This software package may also include third party software as expressly specified in the software package subject to specific license terms from such third parties. Such third party software is supplied under such specific license terms and is not subject to the terms and conditions of license hereunder. By installing copying, downloading, accessing or otherwise using this software package, the recipient agrees to be bound by such license terms with regard to such third party software.
8. STMicroelectronics has no obligation to provide any maintenance, support or updates for the software package.
9. The software package is and will remain the exclusive property of STMicroelectronics and its licensors. The recipient will not take any action that jeopardizes STMicroelectronics and its licensors' proprietary rights or acquire any rights in the software package, except the limited rights specified hereunder.
10. The recipient shall comply with all applicable laws and regulations affecting the use of the software package or any part thereof including any applicable export control law or regulation.
11. Redistribution and use of this software package partially or any part thereof other than as permitted under this license is void and will automatically terminate your rights under this license.

THIS SOFTWARE PACKAGE IS PROVIDED BY STMICROELECTRONICS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS, IMPLIED OR STATUTORY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. IN NO EVENT SHALL STMICROELECTRONICS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

EXCEPT AS EXPRESSLY PERMITTED HEREUNDER AND SUBJECT TO THE APPLICABLE LICENSING TERMS FOR ANY THIRD-PARTY SOFTWARE INCORPORATED IN THE SOFTWARE PACKAGE AND OPEN SOURCE TERMS AS APPLICABLE, NO LICENSE OR OTHER RIGHTS, WHETHER EXPRESS OR IMPLIED, ARE GRANTED UNDER ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHTS OF STMICROELECTRONICS OR ANY THIRD PARTY.

12. No use, reproduction or redistribution of this software package partially or totally may be done in any manner that would subject this software package to any Open Source Terms (as defined below).

13. Some portion of the software package may contain software subject to Open Source Terms (as defined below) applicable for each such portion (“Open Source Software”), as further specified in the software package. Such Open Source Software is supplied under the applicable Open Source Terms and is not subject to the terms and conditions of license hereunder. “Open Source Terms” shall mean any open source license which requires as part of distribution of software that the source code of such software is distributed therewith or otherwise made available, or
14. open source license that substantially complies with the Open Source definition specified at www.opensource.org and any other comparable open source license such as for example GNU General Public License (GPL), Eclipse Public License (EPL), Apache Software License, BSD license and MIT license.

15. This software package may also include third party software as expressly specified in the software package subject to specific license terms from such third parties. Such third party software is supplied under such specific license terms and is not subject to the terms and conditions of license hereunder. By installing copying, downloading, accessing or otherwise using this software package, the recipient agrees to be bound by such license terms with regard to such third party software.

16. STMicroelectronics has no obligation to provide any maintenance, support or updates for the software package.

17. The software package is and will remain the exclusive property of STMicroelectronics and its licensors. The recipient will not take any action that jeopardizes STMicroelectronics and its licensors' proprietary rights or acquire any rights in the software package, except the limited rights specified hereunder.

18. The recipient shall comply with all applicable laws and regulations affecting the use of the software package or any part thereof including any applicable export control law or regulation.

19. Redistribution and use of this software package partially or any part thereof other than as permitted under this license is void and will automatically terminate your rights under this license.

THIS SOFTWARE PACKAGE IS PROVIDED BY STMICROELECTRONICS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS, IMPLIED OR STATUTORY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. IN NO EVENT SHALL STMICROELECTRONICS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

EXCEPT AS EXPRESSLY PERMITTED HEREUNDER AND SUBJECT TO THE APPLICABLE LICENSING TERMS FOR ANY THIRD-PARTY SOFTWARE INCORPORATED IN THE SOFTWARE PACKAGE AND OPEN SOURCE TERMS AS APPLICABLE, NO LICENSE OR OTHER RIGHTS, WHETHER EXPRESS OR IMPLIED, ARE GRANTED UNDER ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHTS OF STMICROELECTRONICS OR ANY THIRD PARTY.

Xilinx (Xilinx IP) License Information

The Xilinx License. Copyright (C) 2010 - 2019 Xilinx, Inc. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

- The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
- THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL XILINX BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
- Except as contained in this notice, the name of the Xilinx shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from Xilinx.

zlib License Information

The zlib License. Copyright (C) 1995-2023 Jean-loup Gailly (jloup@gzip.org) and Mark Addler (madler@alumni.caltech.edu). All rights reserved.

This software is provided `as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software. Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

- The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
- Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
- This notice may not be removed or altered from any source distribution.