

**Oracle® Communications**

**Session Border Controller – S-Cz9.3.0**

**Program Documentation – License Document**

August 2024

## Contents

<b>Copyright Notices.....</b>	<b>3</b>
License Restrictions Warranty/Consequential Damages Disclaimer.....	3
Warranty Disclaimer.....	3
Restricted Rights Notice.....	3
Hazardous Applications Notice.....	3
Trademark Notice.....	3
Documentation Accessibility.....	3
Access to Oracle Support.....	4
Third Party Content, Products, and Services Disclaimer.....	4
<b>Oracle Linux License Agreement.....</b>	<b>5</b>
<b>Oracle Communications Session Border Controller – S-Cz9.3.0 – Licensing Notes.....</b>	<b>8</b>
<b>Third-Party Commercial and Open Source Software.....</b>	<b>46</b>
Commercial Software.....	46
Open Source Disclosure.....	48
Appendix A: GNU Lesser General Public License, 2.1 (LGPL-2.1).....	107
Appendix B: GNU General Public License, version 2 (GPL-2.0).....	120
Appendix C: GNU General Public License, version 3 (GPL-3.0).....	127
Appendix D: Apache Public License.....	144
Acpid License.....	149
GCC License.....	151
Mozilla License.....	157
OJET License.....	161
Python License.....	174

# Copyright Notices

Copyright (c) 2000, 2024 Oracle and/or its affiliates.

## License Restrictions Warranty/Consequential Damages Disclaimer

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or de-compilation of this software, unless required by law for interoperability, is prohibited.

## Warranty Disclaimer

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

## Restricted Rights Notice

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

## Hazardous Applications Notice

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

## Trademark Notice

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support.

For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

## Third Party Content, Products, and Services Disclaimer

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

# Oracle Linux License Agreement

We, us, our and Oracle refers to Oracle America, Inc. "You and Your" refers to the individual or entity that has acquired the Oracle Linux programs. Oracle Linux programs refers to the Linux software product which you have acquired. License refers to your right to use the Oracle Linux programs under the terms of this Agreement and the licenses referenced herein. This Agreement is governed by the substantive and procedural laws of the United States and the State of California, and you and Oracle agree to submit to the exclusive jurisdiction of, and venue in, the courts of San Francisco or Santa Clara counties in California in any dispute arising out of or relating to this Agreement.

We are willing to provide a copy of the Oracle Linux programs to you only upon the condition that you accept all of the terms contained in this Agreement. Read the terms carefully and indicate your acceptance by either selecting the Accept button at the bottom of the page to confirm your acceptance, if you are downloading the Oracle Linux programs, or continuing to install the Oracle Linux programs, if you have received this Agreement during the installation process. If you are not willing to be bound by these terms, select the Do Not Accept button or discontinue the installation process.

1. Grant of Licenses to the Oracle Linux programs - Subject to the terms of this Agreement, Oracle grants to you a license to the Oracle Linux programs under the GNU General Public License version 2.0. The Oracle Linux programs contain many components developed by Oracle and various third parties. The license for each component is located in the licensing documentation and/or in the component's source code. In addition, a list of components may be delivered with the Oracle Linux programs and the Additional Oracle Linux programs (as defined below) or accessed online at <http://oss.oracle.com/linux/legal/oracle-list.html>. The source code for the Oracle Linux Programs and the Additional Oracle Linux programs can be found and accessed online at <https://oss.oracle.com/sources/>. This agreement does not limit, supersede or modify your rights under the license associated with any separately licensed individual component.

2. Licenses to Additional Oracle Linux programs - Certain third-party technology (collectively the Additional Oracle Linux programs) may be included on the same medium or as part of the download of Oracle Linux programs you receive, but is not part of the Oracle Linux programs. Each Additional Oracle Linux program is licensed solely under the terms of the Mozilla Public License, Apache License, Common Public License, GNU Lesser General Public License, Netscape Public License or similar license that is included with the relevant Additional Oracle Linux program.

3. Ownership - The Oracle Linux programs and their components and the Additional Oracle Linux programs are owned by Oracle or its licensors. Subject to the licenses granted and/or referenced herein, title to the Oracle Linux programs and their components and the Additional Oracle Linux programs remains with Oracle and/or its licensors.

4. Trademark License - You are permitted to distribute unmodified Oracle Linux programs or unmodified Additional Oracle Linux programs without removing the trademark(s) owned by Oracle or its affiliates that are included in the unmodified Oracle Linux programs or unmodified Additional Oracle Linux programs (the Oracle Linux trademarks). You may only distribute modified Oracle Linux programs or modified Additional Oracle Linux programs if you remove relevant images containing the Oracle Linux trademarks. Certain files, identified in <http://oss.oracle.com/linux/legal/oracle-list.html>, include such trademarks. Do not delete these files, as deletion may corrupt the Oracle Linux programs or Additional Oracle Linux programs. You are not granted any other rights to Oracle Linux trademarks, and you acknowledge that you shall not gain any proprietary interest in the Oracle Linux trademarks. All goodwill arising out of use of the Oracle Linux trademarks shall inure to the benefit of Oracle or its affiliates. You may not use any trademarks owned by Oracle or its affiliates (including ORACLE) or potentially confusing variations (such as, ORA) as a part of your logo(s), product name(s), service name(s), company name, or domain name(s) even if such products, services or domains include, or are related to, the Oracle Linux programs or Additional Oracle Linux programs.

5. Limited Warranty - THE ORACLE LINUX PROGRAMS AND ADDITIONAL ORACLE LINUX PROGRAMS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. WE FURTHER DISCLAIM ALL WARRANTIES, EXPRESS AND

IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

6. Limitation of Liability - IN NO EVENT SHALL WE BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR DATA USE, INCURRED BY YOU OR ANY THIRD PARTY, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. OUR ENTIRE LIABILITY FOR DAMAGES HEREUNDER SHALL IN NO EVENT EXCEED ONE HUNDRED DOLLARS (U.S.).

7. No Technical Support - Our technical support organization will not provide technical support, phone support, or updates to you for the materials licensed under this Agreement. Technical support, if available, may be acquired from Oracle or its affiliates under a separate agreement.

8. Relationship between the Parties - The relationship between you and us is that of licensee/licensor. Neither party will represent that it has any authority to assume or create any obligation, express or implied, on behalf of the other party, nor to represent the other party as agent, employee, franchisee, or in any other capacity. Nothing in this Agreement shall be construed to limit either party's right to independently develop or distribute programs that are functionally similar to the other party's products, so long as proprietary information of the other party is not included in such programs.

9. Entire Agreement - You agree that this Agreement is the complete Agreement for the Oracle Linux programs and the Additional Oracle Linux programs, and this Agreement supersedes all prior or contemporaneous Agreements or representations. If any term of this Agreement is found to be invalid or unenforceable, the remaining provisions will remain effective. Neither the Uniform Computer Information Transactions Act nor the United Nations Convention on the International Sale of Goods applies to this agreement.

You can find a copy of the GNU General Public License version 2.0 in the copying or license file included with the Oracle Linux programs or here: <http://oss.oracle.com/licenses/GPL-2>.

To check the version of the Linux Kernel in the release please run the ACLI command "Show version image". As an example, The Linux Kernel version reported would look like "Linux kernel linux-uek5 v4.14.32-2".

To check the version of the Oracle Linux in the release please run the ACLI command "show version". As an example, The Linux OS version reported would look like "Oracle Linux branches-7/el7-u4 {2018-03-28T07:00:00+0000}".

## OFFER TO PROVIDE SOURCE CODE

For software that you receive from Oracle in binary form that is licensed under an open source license that gives you the right to receive the source code for that binary, you can obtain a copy of the applicable source code from <https://oss.oracle.com/sources/> or <http://www.oracle.com/goto/opensourcecode>. Alternatively, if the source code for the technology was not provided to you with the binary, you can also receive a copy of the source code on physical media by submitting a written request to:

Oracle America, Inc.  
Attn: Associate General Counsel  
Development and Engineering Legal  
500 Oracle Parkway, 10th Floor  
Redwood Shores, CA 94065

Or, you may send an email to Oracle using the form linked from <http://www.oracle.com/goto/opensourcecode>. Your written or emailed request should include:

- \* The name of the component or binary file(s) for which you are requesting the source code
- \* The name and version number of the Oracle product
- \* The date you received the Oracle product
- \* Your name

- \* Your company name (if applicable)
- \* Your return mailing address and email
- \* A telephone number in the event we need to reach you.

We may charge you a fee to cover the cost of physical media and processing. Your request must be sent (i) within three (3) years of the date you received the Oracle product that included the component or binary file(s) that are the subject of your request, or (ii) in the case of code licensed under the GPL v3, for as long as Oracle offers spare parts or customer support for that product model or version.

## **Terms for Other Oracle Programs**

General - This Section contains license terms for the software included in the product that you wish to install or use. Oracle Linux is the operating system software, the section above applies with respect to Oracle Linux.

"Program" or "Programs" means, for the purpose of this section, each Oracle Software included in the product, except for the Oracle Linux operating system software.

License - Except as set forth in the Oracle Linux license agreement, by accessing and using a Program, you agree that (a) you have a valid License Agreement covering your use of the Program and that your use of the program is subject to such License Agreement; or (b) subject to this Agreement, the Oracle Trial License Terms and conditions in Clause 3 below cover your use of the Program.

# Oracle Communications Session Border Controller – S-Cz9.3.0 – Licensing Notes

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the “Program(s)”). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (<https://edelivery.oracle.com>) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle’s Software Investment Guide (<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html>), and/or contact the applicable Oracle License Management Services representative listed on <http://www.oracle.com/us/corporate/license-management-services/index.html>

Product	Subproduct	Licensing Description
Oracle Communications Session Border Controller	Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric	<p><b>Product Editions and Permitted Features</b></p> <p>This license (available on a per server basis) provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:</p> <p><b>ACP</b> (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>DOS</b> – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p><b>IDS</b> (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call</p>



Product	Subproduct	Licensing Description
		<p>admission control) failures.</p> <p><b>IDS Advanced</b> – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p><b>National Emergency Services (NSEP)</b> - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p><b>IPFIX interface</b> – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><b>Prerequisite Products</b> Acme Packet 3900, 3950, 4900, 4600 or 6350 platform</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b> This license enables a number of concurrent sessions by Oracle Communications Session Border Controller (ISO session capacity) for SIP. This feature license includes the capability to handle endpoint registrations (registration caching) and surrogate registrations.</p> <p><b>Pre-requisite Products</b> Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Peering Session Border Controller – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b> This license enables a number of concurrent peering sessions by Oracle Communications Session Border Controller (ISO session capacity) for SIP. This feature license does not include the capability to handle endpoint registrations (registration caching) or surrogate registrations.</p> <p><b>Pre-requisite Products</b> Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric</p> <p><b>Entitled Products and Restricted Use Licenses</b> This license is only applicable to peering (interconnect) Session Border Controller configuration.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Transcoding Session Border Controller – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent transcoding sessions by Oracle Communications Session Border Controller (ISO session capacity) for SIP protocol in a pooled transcoding configuration. A transcoding session license is consumed when an OCSBC operating in pooled transcoding configuration performs transcoding function for a single session.</p> <p>This feature license does not include royalty-bearing CODEC use which is licensed separately.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 4600 or 6350 platform with transcoding module(s)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller (base fee) – Integrated Software Option – per Server Metric</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>This license is only applicable to pooled transcoding Session Border Controller configurations.</p>
	Oracle Communications Session Border Controller – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license includes the capability to handle endpoint registrations (registration caching) and surrogate registrations.</p> <p>This license (available on a per network-wide concurrent session basis) also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p><b>ACP</b> (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and</p>

Product	Subproduct	Licensing Description
		<p>take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>DOS</b> – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p><b>IDS (Intrusion Detection)</b> – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p><b>IDS Advanced</b> – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p><b>National Emergency Services (NSEP)</b> - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p><b>IPFIX interface</b> – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 3900, 3950, 4900, 4600 or 6350 platform OR</li> <li>• Supported virtualized platform</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Peering Session Border Controller – Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent peering sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license does not include the capability to handle endpoint registrations (registration caching) or surrogate registrations.</p> <p>This license (available on a per network-wide concurrent session basis) also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p><b>ACP (Acme Control Protocol)</b> - Allows Oracle Communications Session Border Controller system to</p>

Product	Subproduct	Licensing Description
		<p>respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions</u>: Not applicable to SBC VNF. Requires separate TLS license.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>DOS</b> – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p><b>IDS</b> (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p><b>IDS Advanced</b> – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p><b>National Emergency Services (NSEP)</b> - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p><b>IPFIX interface</b> – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 3900, 3950, 4900, 4600 or 6350 platform</li> <li>OR</li> <li>• Supported virtualized platform</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>This license is only applicable to peering (interconnect) Session Border Controller configurations.</p>
	Oracle Communications Transcoding Session Border Controller – Network-Wide	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent transcoding sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP protocol in a</p>

Product	Subproduct	Licensing Description
	Concurrent Session Perpetual	<p>pooled transcoding configuration. A transcoding session license is consumed when an OCSBC operating in pooled transcoding configuration performs transcoding function for a single session.</p> <p>This feature license does not include royalty-bearing CODEC use which is licensed separately.</p> <p>This license (available on a per network-wide concurrent session basis) also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p><b>ACP</b> (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) - Enables all SIP functionality on the Oracle Communications Session Border Controller, including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) - This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Acme Packet 4600 or 6350 platform with transcoding module(s)</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>This license is only applicable to pooled transcoding Session Border Controller configurations.</p>
	Oracle Communications Session Border Controller – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license includes the capability to handle endpoint registrations (registration caching) and surrogate registrations.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>This license also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and</p>

Product	Subproduct	Licensing Description
		<p>SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p><b>ACP</b> (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>DOS</b> – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p><b>IDS</b> (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p><b>IDS Advanced</b> – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p><b>National Emergency Services (NSEP)</b> - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p><b>IPFIX interface</b> – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 3900, 3950, 4900, 4600 or 6350 platform</li> <li>OR</li> <li>• Supported virtualized platform</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Peering Session Border Controller – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent peering sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP. This feature license does not include the capability to handle endpoint registrations (registration caching) or surrogate registrations.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>This license also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p><b>ACP</b> (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) – Enables all SIP functionality including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>DOS</b> – Enables Denial of Service protection functionality that protects network infrastructure, including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control.</p> <p><b>IDS</b> (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p><b>IDS Advanced</b> – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p><b>National Emergency Services (NSEP)</b> - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures.</p> <p><b>IPFIX interface</b> – The IPFIX custom interface on the SBC</p>

Product	Subproduct	Licensing Description
		<p>allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 3900, 3950, 4900, 4600 or 6350 platform</li> <li>OR</li> <li>• Supported virtualized platform</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>This license is only applicable to peering (interconnect) Session Border Controller configuration.</p>
	<p>Oracle Communications Transcoding Session Border Controller – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>This license enables a number of concurrent transcoding sessions by Oracle Communications Session Border Controller (perpetual session capacity) for SIP protocol in a pooled transcoding configuration. A transcoding session license is consumed when an OCSBC operating in pooled transcoding configuration performs transcoding function for a single session.</p> <p>This feature license does not include royalty-bearing CODEC use which is licensed separately.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p>This license also provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with this license:</p> <p><b>ACP</b> (Acme Control Protocol) - Allows Oracle Communications Session Border Controller system to respond to external ACP requests (required for Oracle Communications Session Delivery Management Suite).</p> <p><b>SIP</b> (Session Initiation Protocol) - Enables all SIP functionality on the Oracle Communications Session Border Controller, including IMS P-CSCF functionality.</p> <p><b>TLS</b> (Transport Layer Security) - This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to SBC VNF. Requires separate TLS license.</p> <p><b>HA</b> (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p><b>Pre-requisite Products</b></p>



Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> <li>Acme Packet 4600 or 6350 platform with transcoding module(s)</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>This license is only applicable to pooled transcoding Session Border Controller configurations.</p>
<b>Session Capacity Based Licenses</b>		
	<p>Oracle Communications Session Border Controller, Advanced Media Termination – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables support for handling RTC media, via the following features:</p> <ul style="list-style-type: none"> <li>RTP / RTCP multiplexing (per RFC 5761)</li> <li>ICE lite (per RFC 5245)</li> <li>STUN</li> </ul> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, Advanced Media Termination – Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables support for terminating RTC media, via the following features:</p> <ul style="list-style-type: none"> <li>RTP / RTCP multiplexing (per RFC 5761)</li> <li>ICE lite (per RFC 5245)</li> <li>STUN</li> </ul> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, Advanced Media Termination – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables support for terminating RTC media, via the following features:</p> <ul style="list-style-type: none"> <li>• RTP / RTCP multiplexing (per RFC 5761)</li> <li>• ICE lite (per RFC 5245)</li> <li>• STUN</li> </ul> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, Bidirectional Forwarding Detection – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of BFD protocol as an alternate High Availability mechanism on the SBC.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, Bidirectional Forwarding Detection – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of BFD protocol as an alternate High Availability mechanism on the SBC.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border</li> </ul>

Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, Bidirectional Forwarding Detection – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of BFD protocol as an alternate High Availability mechanism on the SBC.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, Core Features – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b></p> <p>The following features are available with this license:</p> <p><b>Accounting</b> – Allows the creation of call accounting records using either Radius or Diameter (via the Rf interface), or by collecting the information in flat files that can be stored locally or pushed via FTP to an external server.</p> <p><b>Load Balancing</b> – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p><b>QoS</b> – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p><b>Routing</b> – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <p>The following features are included in this license:</p> <ul style="list-style-type: none"> <li>• ENUM Database support</li> <li>• LRT (local route table)</li> </ul>

Product	Subproduct	Licensing Description
		<p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, Core Features – Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>The following features are available with this license:</p> <p><b>Accounting</b> – Allows the creation of call accounting records using either Radius or Diameter (via the Rf interface), or by collecting the information in flat files that can be stored locally or pushed via FTP to an external server.</p> <p><b>Load Balancing</b> – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p><b>QoS</b> – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p><b>Routing</b> – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <p>The following features are included in this license:</p> <ul style="list-style-type: none"> <li>ENUM Database support</li> <li>LRT (local route table)</li> </ul> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, Core Features – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>The following features are available with this license:</p> <p><b>Accounting</b> – Allows the creation of call accounting records using either Radius or Diameter (via the Rf interface), or by collecting the information in flat files that can be stored locally or pushed via FTP to an external server.</p> <p><b>Load Balancing</b> – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p><b>QoS</b> – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media.</p> <p><b>Routing</b> – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <p>The following features are included in this license:</p> <ul style="list-style-type: none"> <li>• ENUM Database support</li> <li>• LRT (local route table)</li> </ul> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, Government Security Certification – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session</li> </ul>

Product	Subproduct	Licensing Description
		<p>capacity</p> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, Government Security Certification – Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b> Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, Government Security Certification – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b> Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, IPsec Trunking - Integrated Software Option - per 50</p>	<p><b>Product Editions and Permitted Features</b> Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media.</p> <p><b>Pre-requisite Products</b></p>

Product	Subproduct	Licensing Description
	Concurrent Sessions Metric	<ul style="list-style-type: none"> <li>• SSM3 module (for Acme Packet 4600 or 6350 platforms only – not required for Acme Packet 3900, 3950, 4900 or virtualized platforms)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, IPSec Trunking – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• SSM3 module (for Acme Packet 4600 or 6350 platforms only – not required for Acme Packet 3900, 3950, 4900 or virtualized platforms)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, IPSec Trunking – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling and media. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• SSM3 module (for Acme Packet 4600 or 6350 platforms only – not required for Acme Packet 3900, 3950, 4900 or virtualized platforms)</li> </ul> <p>AND</p>

Product	Subproduct	Licensing Description
		<ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> This license requires an equal number of session capacity licenses. <b>Entitled Products and Restricted Use Licenses</b> N/A
	Oracle Communications Session Border Controller, IPv4 to IPv6 Interworking - Integrated Software Option - per 50 Concurrent Sessions Metric	<b>Product Editions and Permitted Features</b> Allows IPv4-IPv6 interworking for signaling and media. This license is not required for pure IPv6 functionality. <b>Pre-requisite Products</b> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller - Integrated Software Option session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller - Integrated Software Option session capacity</li> </ul> This license requires an equal number of ISO session capacity licenses. <b>Entitled Products and Restricted Use Licenses</b> N/A
	Oracle Communications Session Border Controller, IPv4 to IPv6 Interworking - Network-Wide Concurrent Session Perpetual	<b>Product Editions and Permitted Features</b> Allows IPv4-IPv6 interworking for signaling and media. This license is not required for pure IPv6 functionality. <b>Pre-requisite Products</b> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> This license requires an equal number of session capacity licenses. <b>Entitled Products and Restricted Use Licenses</b> N/A
	Oracle Communications Session Border Controller, IPv4 to IPv6 Interworking - Single	<b>Product Editions and Permitted Features</b> Allows IPv4-IPv6 interworking for signaling and media. This license is not required for pure IPv6 functionality.



Product	Subproduct	Licensing Description
	Server Concurrent Session Perpetual	<p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, Lawful Intercept – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, Lawful Intercept – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, Lawful Intercept – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, Policy Server – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Allows configuration of a COPS (common open policy server)/Diameter interface towards a third party external policy server function that provides functionality in the following two categories:</p> <ul style="list-style-type: none"> <li>• External Bandwidth Management/ Call Admission Control towards a Policy Server (RACF/PCRF)</li> <li>• Location Information queries to a Connectivity Location Function (CLF).</li> </ul> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, Policy Server – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows configuration of a COPS (common open policy server)/Diameter interface towards a third party external policy server function that provides functionality in the following two categories:</p> <ul style="list-style-type: none"> <li>• External Bandwidth Management/ Call Admission</li> </ul>

Product	Subproduct	Licensing Description
		<p>Control towards a Policy Server (RACF/PCRF)</p> <ul style="list-style-type: none"> <li>Location Information queries to a Connectivity Location Function (CLF).</li> </ul> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, Policy Server – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Allows configuration of a COPS (common open policy server)/Diameter interface towards a third party external policy server function that provides functionality in the following two categories:</p> <ul style="list-style-type: none"> <li>External Bandwidth Management/ Call Admission Control towards a Policy Server (RACF/PCRF)</li> <li>Location Information queries to a Connectivity Location Function (CLF).</li> </ul> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Oracle Communications Session Border Controller, REST API for Third Party Use – Integrated Software Option – per 50 Concurrent Sessions</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables automated management of the SBC from 3<sup>rd</sup> party (i.e., non Oracle) applications and services.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul>

Product	Subproduct	Licensing Description
	Metric	<p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, REST API for Third Party Use – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables automated management of the SBC from 3<sup>rd</sup> party (i.e., non Oracle) applications and services.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, REST API for Third Party Use – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables automated management of the SBC from 3<sup>rd</sup> party (i.e., non Oracle) applications and services. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, Ringback Tone Generation –	<p><b>Product Editions and Permitted Features</b> Allows the Session Border Controller to generate ringback tones locally</p>

Product	Subproduct	Licensing Description
	Integrated Software Option – per 50 Concurrent Session Metric	<p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, Ringback Tone Generation – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows the Session Border Controller to generate ringback tones locally</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, Ringback Tone Generation – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows the Session Border Controller to generate ringback tones locally</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, SIP/SIP-I Interworking – Integrated Software Option – per 50 Concurrent Session Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Allows native SIP/SIP-I interworking, which is enabled via the sipi-behavior option of the sip-config element.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIP/SIP-I Interworking – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows native SIP/SIP-I interworking, which is enabled via the sipi-behavior option of the sip-config element.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIP/SIP-I Interworking – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Allows native SIP/SIP-I interworking, which is enabled via the sipi-behavior option of the sip-config element.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p>

Product	Subproduct	Licensing Description
		<p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC Session Recording – Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b> Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls. This license is NOT available to French customers subject to the R226 regulations</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC Session Recording – Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b> Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls. This license is NOT available to French customers subject to the R226 regulations</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC Session Recording – Single Server Concurrent</p>	<p><b>Product Editions and Permitted Features</b> Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls. This license is NOT available to French customers subject to</p>

Product	Subproduct	Licensing Description
	Session Perpetual	<p>the R226 regulations</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIPREC Session Recording for French Territories – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls.</p> <p>This license is only applicable to French customers subject to the R226 regulations</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, SIPREC Session Recording for French Territories – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls.</p> <p>This license is only applicable to French customers subject to the R226 regulations</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border</li> </ul>



Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, SIPREC Session Recording for French Territories – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables session replication for recording, which helps call centers record the signaling and media packets associated with their calls.</p> <p>This license is only applicable to French customers subject to the R226 regulations</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, STIR SHAKEN - Integrated Software Option - per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>This license requires an equal number of ISO session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Oracle Communications Session Border Controller, STIR SHAKEN</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of REST API calls to STI servers for the</p>

Product	Subproduct	Licensing Description
	- Network-Wide Concurrent Session Perpetual	<p>purposes of STIR authentication and validation.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, STIR SHAKEN - Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, Transport Layer Security (TLS) – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables the use of TLS for encryption of SIP signaling for virtual SBCs</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>This license is only applicable to SBC VNF</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, Transport Layer Security (TLS) – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables the use of TLS for encryption of SIP signaling for virtual SBCs</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>This license requires an equal number of session capacity licenses.</p> <p><b>Entitled Products and Restricted Use Licenses</b> This license is only applicable to SBC VNF</p>
Session Based Licenses (orderable independent of session capacity licenses)		
	Oracle Communications Session Border Controller, Advanced MSRP Media Handling - Integrated Software Option - per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b> Enables the use of MSRP functionality.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, Advanced MSRP Media Handling - Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables the use of MSRP functionality.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, Advanced MSRP Media Handling - Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables the use of MSRP functionality. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, SRTP – Integrated Software Option – per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b> Enables SRTP (SDES and DTLS) media encryption.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller – Integrated Software Option session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, SRTP – Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables SRTP (SDES and DTLS) media encryption.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	Oracle Communications Session Border Controller, SRTP – Single Server Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b> Enables SRTP (SDES and DTLS) media encryption. Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p>

Product	Subproduct	Licensing Description
		<p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
<b>Codec Licenses</b>		
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-NB - Integrated Software Option - per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b></p> <p>AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Acme Packet 3900, 3950, 4900, 4600 or 6350 with transcoding module(s)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p>Not available on SBC VNF</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-NB - Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul>

Product	Subproduct	Licensing Description
		<p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-NB - Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b> AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b> N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-WB (G.722.2) - Integrated Software Option - per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b> AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Acme Packet 3900, 3950, 4900, 4600 or 6350 with transcoding module(s)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity</p>

Product	Subproduct	Licensing Description
		licenses Not available on SBC VNF <b>Entitled Products and Restricted Use Licenses</b> N/A
	Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-WB (G.722.2) – Network-Wide Concurrent Session Perpetual	<b>Product Editions and Permitted Features</b> AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec. <b>Pre-requisite Products</b> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>• Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> Requires an equal or greater number of session capacity licenses <b>Entitled Products and Restricted Use Licenses</b> N/A
	Transcoding coder/decoder for Oracle Communications Session Border Controller, AMR-WB (G.722.2) – Single Server Concurrent Session Perpetual	<b>Product Editions and Permitted Features</b> AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec. <b>Pre-requisite Products</b> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> OR <ul style="list-style-type: none"> <li>• Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> Requires an equal or greater number of session capacity licenses <b>Entitled Products and Restricted Use Licenses</b> N/A
	Transcoding coder/decoder for	<b>Product Editions and Permitted Features</b> EVS royalty license is required in order to enable support for

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, EVS - Integrated Software Option - per 50 Concurrent Sessions Metric	<p>transcoding to and from EVS codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Acme Packet 3900, 3950, 4900, 4600 or 6350 with transcoding module(s)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p>Not available on SBC VNF</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, EVS - Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>EVS royalty license is required in order to enable support for transcoding to and from EVS codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, EVS - Single Server Concurrent	<p><b>Product Editions and Permitted Features</b></p> <p>EVS royalty license is required in order to enable support for transcoding to and from EVS codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller</li> </ul>



Product	Subproduct	Licensing Description
	Session Perpetual	<p>session capacity</p> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, Opus - Integrated Software Option - per 50 Concurrent Sessions Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 3900, 3950, 4900, 4600 or 6350 with transcoding module(s)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p>Not available on SBC VNF</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Transcoding coder/decoder for Oracle Communications Session Border Controller, Opus - Network-Wide Concurrent Session Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border</li> </ul>

Product	Subproduct	Licensing Description
		<p>Controller session capacity</p> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, Opus – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>Opus royalty license is required in order to enable support for transcoding to and from Opus codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, SILK - Integrated Software Option – per 50 Concurrent Sessions Metric</p>	<p><b>Product Editions and Permitted Features</b></p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>Acme Packet 3900, 3950, 4900, 4600 or 6350 with transcoding module(s)</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <p>Oracle Communications Peering Session Border Controller session capacity</p> <p>OR</p> <p>Oracle Communications Transcoding Session Border Controller session capacity</p>

Product	Subproduct	Licensing Description
		<p>Requires an equal or greater number of session capacity licenses</p> <p>Not available on SBC VNF</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, SILK – Network-Wide Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	<p>Transcoding coder/decoder for Oracle Communications Session Border Controller, SILK – Single Server Concurrent Session Perpetual</p>	<p><b>Product Editions and Permitted Features</b></p> <p>SILK royalty license is required in order to enable support for transcoding to and from SILK codec.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Peering Session Border Controller session capacity</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>• Oracle Communications Transcoding Session Border Controller session capacity</li> </ul> <p>Requires an equal or greater number of session capacity licenses</p> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>

Endpoints Based Licenses (available in endpoint units)

Product	Subproduct	Licensing Description
	Oracle Communications Session Border Controller, IMS-AKA – Integrated Software Option – per 5K Endpoints Metric	<p><b>Product Editions and Permitted Features</b></p> <p>Enables IMS-AKA framework use for authentication and for securing the signaling path between UE and the Oracle Communications Session Border Controller across the Gm interface on the access network.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 4600 or 6350 platforms</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller – Integrated Software Option session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, IMS-AKA – Network-Wide Concurrent Endpoint Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables IMS-AKA framework use for authentication and for securing the signaling path between UE and the Oracle Communications Session Border Controller across the Gm interface on the access network.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 4600 or 6350 platforms OR supported virtualized platform</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>
	Oracle Communications Session Border Controller, IMS-AKA – Single Server Concurrent Endpoint Perpetual	<p><b>Product Editions and Permitted Features</b></p> <p>Enables IMS-AKA framework use for authentication and for securing the signaling path between UE and the Oracle Communications Session Border Controller across the Gm interface on the access network.</p> <p>Single Server Concurrent Session Perpetual License limits the use of license to a single server during a 90-day period.</p> <p><b>Pre-requisite Products</b></p> <ul style="list-style-type: none"> <li>• Acme Packet 4600 or 6350 platforms, OR supported virtualized platform</li> </ul> <p>AND</p> <ul style="list-style-type: none"> <li>• Oracle Communications Session Border Controller session capacity</li> </ul> <p><b>Entitled Products and Restricted Use Licenses</b></p> <p>N/A</p>



# Third-Party Commercial and Open Source Software

## Commercial Software

Commercial software used in Oracle Communications Session Border Controller – S-CZ9.3.0 is identified in the following table with the following license notes, restrictions, and disclaimers.

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Cavium	u-boot – 1.1.1	GPL 2.0 - See APPENDIX B
Icon Laboratories	Envoy SNMP – 3.6	Used under license from Icon Laboratories, All Rights Reserved.
Mocana	NanoSec Standard and Advanced – 5.1.1	Used under license from Mocana, All Rights Reserved
	NanoSSH Advanced – 5.1.1	Used under license from Mocana, All Rights Reserved
	NanoSSH Client and Server – 5.1.1	Used under license from Mocana, All Rights Reserved
	Embedded IKE – 5.1.1	Used under license from Mocana. All Rights Reserved.
	Embedded SSH Client and Server – 5.1.1	Used under license from Mocana. All Rights Reserved.
	Embedded SSL Server – 5.1.1	Used under license from Mocana. All Rights Reserved.
	bitstring.h (4 <sup>th</sup> party of Mocana)	<p>Copyright (c) 1989, 1993 The Regents of the University of California. All rights reserved.</p> <p>This code is derived from software contributed to Berkeley by Paul Vixie.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>3. [Clause 3 is deleted in its entirety per</li> </ol>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p><a href="http://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change">ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change</a></p> <p>4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>THIS SOFTWARE IS PROVIDED BY THE REGENTS 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 REGENTS 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.</p>
Radvision	H.323 Toolkit	Used under license from Radvision, All Rights Reserved
	ARTP/RTCP	Used under license from Radvision, All Rights Reserved
	ASN.1 Compiler Add-On for H.323 for Windows	Used under license from Radvision, All Rights Reserved
	ARES Library (4 <sup>th</sup> party of Radvision)	<p>Copyright 1998 by the Massachusetts Institute of Technology.</p> <p>Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.</p>
Skype Limited	SILK 1.0.9	<p>Copyright (c) 2006-2010, Skype Limited. All rights reserved. Redistribution and use in source and binary forms, with or without modification, (subject to the limitations in the disclaimer below) are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>- 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.</li> <li>- Neither the name of Skype Limited, nor the names of specific contributors, may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>NO EXPRESS OR IMPLIED LICENSES TO ANY PARTY'S PATENT</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		RIGHTS ARE GRANTED BY THIS LICENSE. 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 OWNER 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.

## Open Source Disclosure

Oracle takes no responsibility for its use or distribution of any open source or shareware software or documentation and disclaims any and all liability or damages resulting from use of said software or documentation. Open source software used in Oracle Communications Session Border Controller is identified in the following table with the following license notes, restrictions, and disclaimers.

### **Election to use GPL v2 / LGPL v2.1 instead of GPL v3 / LGPL v3 where applicable**

Oracle elects to use only the GNU Lesser General Public License version 2.1 (LGPL)/GNU General Public License version 2 (GPL) for any software where a choice of LGPL/GPL license versions are made available with the language indicating that LGPLv2.1/GPLv2 or any later version may be used, or where a choice of which version of the LGPL/GPL applies is unspecified. Where a choice is available between the GPL or the LGPL and any other license, and no specific election has been made with respect to that particular component, Oracle chooses the other license.

The GNU GPL v2 license applies to the Enterprise Linux compilation and any portions of Enterprise Linux it does not conflict with. Whenever this policy does conflict with the copyright of any individual portion of Enterprise Linux, it does not apply.



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Andreas Gruenbacher	Libattr - 2.5.1-3	<p>* Copyright (c) 2001-2003,2005 Silicon Graphics, Inc.</p> <p>* All Rights Reserved.</p> <p>Copyright (C) 2006 Andreas Gruenbacher &lt;agruen@suse.de&gt;, SuSE Linux AG.</p> <p>LGPL 2.1 - See APPENDIX A</p>
Andreas Gruenbacher	Acl 2.3.1-3	<p>LGPL 2.1 - See APPENDIX A</p>
Andrew G. Morgan et-al	Libpam 1.5.1-15	<p>Redistribution and use in source and binary forms of Linux-PAM, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties.</li> <li>2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.</li> <li>3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission.</li> </ol> <p>ALTERNATIVELY, this product may be distributed under the terms of the GNU General Public License, in which case the provisions of the GNU GPL are required INSTEAD OF the above restrictions. (This clause is necessary due to a potential conflict between the GNU GPL and the restrictions contained in a BSD-style copyright.)</p> <p>THIS SOFTWARE IS PROVIDED ``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 AUTHOR(S) 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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		DAMAGE.
Artesyn Technologies	Pcie8120 1.6.5-4	<p>* Copyright (c) 2018 Artesyn Technologies</p> <p>* 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.</p> <p>* 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. See the GNU General Public License for more details./</p> <p>GNU GENERAL PUBLIC LICENSE Version 2, June 1991 See Appendix B</p>
Bob Jenkins	Lookup3 May 2006	<p><a href="http://burtleburtle.net/bob/c/lookup3.c">http://burtleburtle.net/bob/c/lookup3.c</a> lookup3.c, by Bob Jenkins, May 2006, Public Domain. These are functions for producing 32-bit hashes for hash table lookup. hashword(), hashlittle(), hashlittle2(), hashbig(), mix(), and final() are externally useful functions. Routines to test the hash are included if SELF_TEST is defined. You can use this free for any purpose. It's in the public domain. It has no warranty.</p>
Bull S.A. et. Al	Libtirpc 1.3.3-2	<p>Copyright (c) Copyright (c) Bull S.A. 2005 All Rights Reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission</li> </ol> <p>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 OWNER 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.</p>
Cisco Systems	Tacacs+ - F4.0.4.19	<p>Copyright (c) 1995-1998 by Cisco systems, Inc.</p> <p>Permission to use, copy, modify, and distribute this software for</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>any purpose and without fee is hereby granted, provided that this copyright and permission notice appear on all copies of the software and supporting documentation, the name of Cisco Systems, Inc. not be used in advertising or publicity pertaining to distribution of the program without specific prior permission, and notice be given in supporting documentation that modification, copying and distribution is by permission of Cisco Systems, Inc.</p> <p>Cisco Systems, Inc. makes no representations about the suitability of this software for any purpose. THIS SOFTWARE 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.</p> <pre> tac_plus.c  /*  * \$Id: tac_plus.c,v 1.59 2009-07-16 23:31:26 heas Exp \$  *  * TACACS_PLUS daemon suitable for using on Unix systems.  *  * October 1994, Lol Grant  *  * Copyright (c) 1994-1998 by Cisco systems, Inc.  * Permission to use, copy, modify, and distribute this software for  * any purpose and without fee is hereby granted, provided that this  * copyright and permission notice appear on all copies of the  * software and supporting documentation, the name of Cisco Systems,  * Inc. not be used in advertising or publicity pertaining to  * distribution of the program without specific prior permission, and  * notice be given in supporting documentation that modification,  * copying and distribution is by permission of Cisco Systems, Inc.  *  * Cisco Systems, Inc. makes no representations about the suitability  * of this software for any purpose. THIS SOFTWARE 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.  */ </pre>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<pre> regexp.c /*  * regcomp and regex -- regsub and regerror are elsewhere  * @(#)regexp.c 1.3 of 18 April 87  *  * Copyright (c) 1986 by University of Toronto.  * Written by Henry Spencer. Not derived from licensed software.  *  * Permission is granted to anyone to use this software for any  * purpose on any computer system, and to redistribute it freely,  * subject to the following restrictions:  *  * 1. The author is not responsible for the consequences of use of  * this software, no matter how awful, even if they arise  * from defects in it.  *  * 2. The origin of this software must not be misrepresented, either  * by explicit claim or by omission.  *  * 3. Altered versions must be plainly marked as such, and must not  * be misrepresented as being the original software.  *  * Beware that some of this code is subtly aware of the way operator  * precedence is structured in regular expressions. Serious changes in  * regular-expression syntax might require a total rethink. /*  * md4c.c - RSA Data Security, Inc., MD4 message-digest algorithm  */  /* Copyright (C) 1990-2, RSA Data Security, Inc. All rights reserved.  *  * License to copy and use this software is granted provided that it  * is identified as the "RSA Data Security, Inc. MD4 Message-Digest  * Algorithm" in all material mentioning or referencing this software  * or this function. </pre>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>*</p> <p>* License is also granted to make and use derivative works provided</p> <p>* that such works are identified as "derived from the RSA Data Security, Inc. MD4 Message-Digest Algorithm" in all material mentioning or referencing the derived work.</p> <p>*</p> <p>* RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.</p> <p>*</p> <p>* These notices must be retained in any copies of any part of this documentation and/or software.</p> <p>*/</p>
Cisco Systems	Libsrtp 2.5.0	<p>Copyright (c) 2001-2017 Cisco Systems, Inc. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>3. Neither the name of the Cisco Systems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ol> <p>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 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.</p>
Cisco Systems, Inc. and The	SCTP - r8912	Copyright (c) 2001-2007, by Cisco Systems, Inc. All rights reserved.

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
<p>Regents of the University of California</p>		<p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>a) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p> <p>b) 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.</p> <p>c) Neither the name of Cisco Systems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>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 OWNER 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.</p> <p>*****</p> <p>Copyright (c) 1991, 1993 The Regents of the University of California. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p> <p>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.</p> <p>4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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 REGENTS 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.</p> <p>Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE PROJECT 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 PROJECT 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.</p> <p>Copyright (c) 2006-2009 University of Zagreb Copyright (c) 2006-2009 FreeBSD Foundation All rights reserved.</p> <p>This software was developed by the University of Zagreb and the FreeBSD Foundation under sponsorship by the Stichting NLnet and the FreeBSD Foundation.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>Copyright (c) 2009 Jeffrey Roberson &lt;jeff@freebsd.org&gt;</p> <p>Copyright (c) 2009 Robert N. M. Watson</p> <p>All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE AUTHOR 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 AUTHOR 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.</p>
Daniel Drake	Libusb 1.0.26-1	<p>Copyright © 2001 Johannes Erdfelt &lt;johannes@erdfelt.com&gt;</p> <p>Copyright © 2007-2009 Daniel Drake &lt;dsd@gentoo.org&gt;</p> <p>Copyright © 2010-2012 Peter Stuge &lt;peter@stuge.se&gt;</p> <p>Copyright © 2008-2016 Nathan Hjelm &lt;hjelmn@users.sourceforge.net&gt;</p> <p>Copyright © 2009-2013 Pete Batard &lt;pete@akeo.ie&gt;</p> <p>Copyright © 2009-2013 Ludovic Rousseau &lt;ludovic.rousseau@gmail.com&gt;</p> <p>Copyright © 2010-2012 Michael Plante &lt;michael.plante@gmail.com&gt;</p> <p><a href="http://www.gnu.org/licenses/lgpl-2.1.html">http://www.gnu.org/licenses/lgpl-2.1.html</a></p> <p>LGPL 2.1 - See APPENDIX A</p>
Daniel Stenberg	Curl 7.76.1-26	<p>COPYRIGHT AND PERMISSION NOTICE</p> <p>Copyright (c) 1996 - 2021, Daniel Stenberg, &lt;daniel@haxx.se&gt;, and many contributors, see the THANKS file.</p>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>All rights reserved.</p> <p>Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.</p> <p>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 OF THIRD PARTY RIGHTS. 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.</p> <p>Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.</p> <p>The MIT License  Copyright (c) 2012, 2014, 2015, 2016 Tatsuhiro Tsujikawa  Copyright (c) 2012, 2014, 2015, 2016 nghttp2 contributors</p> <p>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 conditions</p>
Dave Gamble	cJSON 1.7.16	<p>Copyright (c) 2009-2017 Dave Gamble and cJSON contributors 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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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.</p>
David Olson	Timezone Data 2022g-2	<p>tzdata: # This file is in the public domain, so clarified as of # 2009-05-17 by Arthur David Olson.</p> <p>The files date.c, newstrftime.3, and strftime.c contain material derived from BSD and use the BSD 3-clause license.</p> <p>/* Copyright 1985, 1987, 1988 The Regents of the University of California. All rights reserved.</p> <p>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 University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>THIS SOFTWARE IS PROVIDED BY THE REGENTS 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 REGENTS 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. */</p>
Digium	Libpri 1.6.0	<p>libpri: An implementation of Primary Rate ISDN</p> <p>Written by Mark Spencer &lt;markster@digium.com&gt;</p> <p>Copyright (C) 2001, Digium, Inc.</p> <p>All Rights Reserved.</p> <p>GNU GENERAL PUBLIC LICENSE</p> <p>Version 2, June 1991</p> <p>See Appendix B</p>
Digium	Asterisk 18.9- cert4	<p>The Asterisk(R) Open Source PBX</p> <p>By Mark Spencer &lt;markster@digium.com&gt; and the Asterisk.org developer community. Copyright (C) 2001-2021 Digium, Inc. and other copyright holders.</p> <p>Asterisk is distributed under the GNU General Public License version 2 and is also available under alternative licenses negotiated directly</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>with Digium, Inc. If you obtained Asterisk under the GPL, then the GPL applies to all loadable Asterisk modules used on your system as well, except as defined below. The GPL (version 2) is included in this source tree in the file COPYING.</p> <p>This package also includes various components that are not part of Asterisk itself; these components are in the 'contrib' directory and its subdirectories. These components are also distributed under the GPL version 2 as well.</p> <p>Digium, Inc. (formerly Linux Support Services) holds copyright and/or sufficient licenses to all components of the Asterisk package, and therefore can grant, at its sole discretion, the ability for companies, individuals, or organizations to create proprietary or Open Source (even if not GPL) modules which may be dynamically linked at runtime with the portions of Asterisk which fall under our copyright/license umbrella, or are distributed under more flexible licenses than GPL.</p> <p>If you wish to use our code in other GPL programs, don't worry -- there is no requirement that you provide the same exception in your GPL'd products (although if you've written a module for Asterisk we would strongly encourage you to make the same exception that we do).</p> <p>Specific permission is also granted to link Asterisk with OpenSSL, OpenH323 and/or the UW IMAP Toolkit and distribute the resulting binary files.</p> <p>In addition, Asterisk implements two management/control protocols: the Asterisk Manager Interface (AMI) and the Asterisk Gateway Interface (AGI). It is our belief that applications using these protocols to manage or control an Asterisk instance do not have to be licensed under the GPL or a compatible license, as we believe these protocols do not create a 'derivative work' as referred to in the GPL. However, should any court or other judiciary body find that these protocols do fall under the terms of the GPL, then we hereby grant you a license to use these protocols in combination with Asterisk in external applications licensed under any license you wish.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>The 'Asterisk' name and logos are trademarks owned by Digium, Inc., and use of them is subject to our trademark licensing policies. If you wish to use these trademarks for purposes other than simple redistribution of Asterisk source code obtained from Digium, you should contact our licensing department to determine the necessary steps you must take. For more information on this policy, please read:</p> <p><a href="http://www.digium.com/en/company/profile/trademarkpolicy.php">http://www.digium.com/en/company/profile/trademarkpolicy.php</a></p> <p>If you have any questions regarding our licensing policy, please contact us:</p> <p>+1.877.344.4861 (via telephone in the USA)  +1.256.428.6000 (via telephone outside the USA)  +1.256.864.0464 (via FAX inside or outside the USA)  IAX2/pbx.digium.com (via IAX2)  licensing@digium.com (via email)</p> <p>Digium, Inc.  445 Jan Davis Drive  Huntsville, AL 35806  USA  GNU GENERAL PUBLIC LICENSE  Version 2, June 1991  See Appendix B</p>
Digium	Dahdi 3.2.0	GNU GENERAL PUBLIC LICENSE Version 2, June 1991 See Appendix B
Fedora Project	Logrotate 3.18.0-8	GNU GENERAL PUBLIC LICENSE Version 2, June 1991 See Appendix B
Free Software Foundation	Sed 4.8-9	Copyright (C) 2012 Free Software Foundation, Inc. GNU GENERAL PUBLIC LICENSE Version 3, June 2007

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		See Appendix C
Free Software Foundation	GCC - GNU Compiler Collection 11.3.1-4.3.0.4	<a href="#">GCC License</a> GNU GENERAL PUBLIC LICENSE Version 2, June 1991 See Appendix B
Free Software Foundation, Inc.	Glibc 2.34-60.0.3	LGPL 2.1 - See APPENDIX A
Free Software Foundation, Inc.	Glibc-common 2.34-83.0.1	<pre># Copyright (C) 1998-2021 Free Software Foundation, Inc. # This file is part of the GNU C Library.  # The GNU C 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.  # The GNU C Library 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. See the GNU # Lesser General Public License for more details.  # You should have received a copy of the GNU Lesser General Public # License along with the GNU C Library; if not, see # &lt;https://www.gnu.org/licenses/&gt;.</pre> LGPL 2.1 - See APPENDIX A
Free Software Foundation, Inc.	Ncurses 6.2-10.20210508	Copyright (c) 1998-2006,2007 Free Software Foundation, Inc. Copyright (c) 1998-2003,2007 Free Software Foundation, Inc. Copyright (c) 1998-2003,2004 Free Software Foundation, Inc. Copyright (c) 1998-2007,2008 Free Software Foundation, Inc.  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, distribute with modifications, 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:

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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 ABOVE 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.</p>
Frodo Looijaard et. al	Lmsensors (library) 3.6.0-10	LGPL 2.1 - See APPENDIX A
Google	WebRTC project M100	<p>Copyright (c) 2011, The WebRTC project authors. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>* 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.</li> <li>* Neither the name of Google nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>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.</p> <p>--</p> <p>Additional IP Rights Grant (Patents)</p> <p>"This implementation" means the copyrightable works distributed by Google as part of the WebRTC code package. Google hereby grants to you a perpetual, worldwide, non-exclusive, no-charge, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, transfer, and otherwise run, modify and propagate the contents of this implementation of the WebRTC code package, where such license applies only to those patent claims,</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>both currently owned by Google and acquired in the future, licensable by Google that are necessarily infringed by this implementation of the WebRTC code package. This grant does not include claims that would be infringed only as a consequence of further modification of this implementation. If you or your agent or exclusive licensee institute or order or agree to the institution of patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that this implementation of the WebRTC code package or any code incorporated within this implementation of the WebRTC code package constitutes direct or contributory patent infringement, or inducement of patent infringement, then any patent rights granted to you under this License for this implementation of the WebRTC code package shall terminate as of the date such litigation is filed.</p>
Google	Breakpad 8988364	<p>Copyright (c) 2006, Google Inc. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>* 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.</li> <li>* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>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 OWNER 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.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>-----</p> <p>Copyright 2001-2004 Unicode, Inc.</p> <p>Disclaimer</p> <p>This source code is provided as is by Unicode, Inc. No claims are made as to fitness for any particular purpose. No warranties of any kind are expressed or implied. The recipient agrees to determine applicability of information provided. If this file has been purchased on magnetic or optical media from Unicode, Inc., the sole remedy for any claim will be exchange of defective media within 90 days of receipt.</p> <p>Limitations on Rights to Redistribute This Code Unicode, Inc. hereby grants the right to freely use the information supplied in this file in the creation of products supporting the Unicode Standard, and to make copies of this file in any form for internal or external distribution as long as this notice remains attached.</p>
Google	Gperftools 2.10	<p>Copyright (c) 2005, Google Inc. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>* 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.</li> <li>* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>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 OWNER 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.</p> <p>Fourth party licenses: src/third_party/valgrind.h /* *- c *-</p> <p>-----</p> <p>Notice that the following BSD-style license applies to this one file (valgrind.h) only. The rest of Valgrind is licensed under the terms of the GNU General Public License, version 2, unless otherwise indicated. See the COPYING file in the source distribution for details.</p> <p>-----</p> <p>This file is part of Valgrind, a dynamic binary instrumentation framework. Copyright (C) 2000-2008 Julian Seward. All rights reserved. Redistribution</p>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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 acknowledgment 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 AUTHOR 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.</p> <p>-----</p> <p>Notice that the above BSD-style license applies to this one file (valgrind.h) only. The entire rest of Valgrind is licensed under the terms of the GNU General Public License, version 2. See the COPYING file in the source distribution for details.</p> <p>----- */</p>
Hewlett Packard	Libunwind 1.6.2-1	<p>Copyright (c) 2002 Hewlett-Packard Co.</p> <p>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:</p> <p>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.</p>
Icon Laboratories	Envoy SNMP – 3.6	Used under license from Icon Laboratories, All Rights Reserved.
Intel	Intel PVSDK	
Intel	Data Plane Development Kit 22.11.1	<p>Section I: User Space Components (BSD or Public Domain)</p> <p>The DPDK uses the Open Source BSD-3-Clause license for the core libraries and drivers. The kernel components are naturally GPL-2.0 licensed.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>SPDX-License-Identifier: BSD-3-Clause</p> <p>SPDX-License-Identifier: GPL-2.0</p> <p>SPDX-License-Identifier: (BSD-3-Clause OR GPL-2.0)</p> <p>SPDX-License-Identifier: (BSD-3-Clause OR LGPL-2.1)</p> <p>Any new file contributions in DPDK shall adhere to the above scheme.</p> <p>It is also being recommended to replace the existing license text in the code with SPDX-License-Identifiers.</p> <p>Any exception to the DPDK IP policies shall be approved by DPDK Tech Board and DPDK Governing Board. Steps for any exception approval:</p> <ol style="list-style-type: none"> <li>1. Mention the appropriate license identifier form SPDX. If the license is not listed in SPDX Licenses. It is the submitters responsibility to get it first listed.</li> <li>2. Get the required approval from the DPDK Technical Board. Technical Board may advise the author to check alternate means first. If no other alternative are found and the merit of the contributions are important for DPDK's mission, it may decide on such exception with two-thirds vote of the members.</li> <li>3. Technical Board then approach Governing Board for such limited approval for the given contribution only.</li> </ol> <p>Any approvals shall be documented in "license/exceptions.txt" with record dates.</p> <p>DPDK project supported licenses are:</p> <ol style="list-style-type: none"> <li>1. BSD 3-clause "New" or "Revised" License <ul style="list-style-type: none"> <li>SPDX-License-Identifier: BSD-3-Clause</li> <li>URL: <a href="http://spdx.org/licenses/BSD-3-Clause#licenseText">http://spdx.org/licenses/BSD-3-Clause#licenseText</a></li> <li>DPDK License text: license/bsd-3-clause.txt</li> </ul> </li> <li>2. GNU General Public License v2.0 only <ul style="list-style-type: none"> <li>SPDX-License-Identifier: GPL-2.0</li> <li>URL: <a href="http://spdx.org/licenses/GPL-2.0.html#licenseText">http://spdx.org/licenses/GPL-2.0.html#licenseText</a></li> <li>DPDK License text: license/gpl-2.0.txt</li> </ul> </li> <li>3. GNU Lesser General Public License v2.1 <ul style="list-style-type: none"> <li>SPDX-License-Identifier: LGPL-2.1</li> <li>URL: <a href="http://spdx.org/licenses/LGPL-2.1.html#licenseText">http://spdx.org/licenses/LGPL-2.1.html#licenseText</a></li> <li>DPDK License text: license/lgpl-2.1.txt</li> </ul> </li> </ol> <p>------(separator)-----</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>./license/bsd-2-clause.txt</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>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.</p> <p>-----separator-----</p> <p>./license/bsd-3-clause.txt</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>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.</li> </ol> <p>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.</p> <p>-----separator-----</p> <p>./license/exceptions.txt</p> <p>This file will record any exceptions in DPDK Project with respect to DPDK IP License policy as defined in DPDK Charter available at:</p> <p style="text-align: center;"><a href="https://www.dpdk.org/charter/">https://www.dpdk.org/charter/</a></p> <p>Note that following licenses are not exceptions:-</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>- BSD-3-Clause  - BSD-3-Clause OR GPL-2.0  - BSD-3-Clause OR LGPL-2.1  - GPL-2.0 (*Only for kernel code*)</p> <hr/> <p>SPDX Identifier    TB Approval Date    GB Approval Date    File name</p> <hr/> <p>1.MIT            10/23/2019    02/10/2020    lib/eal/windows/include/dirent.h</p> <p>2.BSD-2-Clause    10/23/2019    12/18/2019    lib/eal/windows/include/getopt.h</p> <p>3.ISC AND</p> <p>    BSD-2-Clause    10/23/2019    12/18/2019    lib/eal/windows/getopt.c</p> <p>4. MIT            10/19/2022    10/18/2022    drivers/net/gve/base/*</p> <hr/> <p>./license/mit.txt</p> <p>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:</p> <p>The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.</p> <p>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.</p> <p>GNU GENERAL PUBLIC LICENSE</p> <p>Version 2, June 1991</p> <p>See Appendix B</p> <p>LGPL 2.1 - See APPENDIX A</p>
Intel Corporation	Intel(R) Multi-Buffer Crypto for IPsec Library 1.3	<p>Copyright (c) 2012-2022, Intel Corporation</p> <p>Redistribution and use in source and binary forms, with or without</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>modification, are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>* 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.</li> <li>* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>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 OWNER 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.</p>
Jacob Schmier	Stacktrace - 2010	<p>Copyright (c) 2010, Jacob Schmier</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p>
Jean-loup Gailly and Mark Adler	Zlib 1.2.11-40	<p>/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.7, May 2nd, 2012</p> <p>Copyright (C) 1995-2012 Jean-loup Gailly and Mark Adler</p> <p>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.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.</li> <li>3. This notice may not be removed or altered from any source distribution.</li> </ol> <p>Jean-loup Gailly Mark Adler  jlop@gzip.org madler@alumni.caltech.edu</p> <p>The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <a href="http://tools.ietf.org/html/rfc1950">http://tools.ietf.org/html/rfc1950</a> (zlib format), <a href="http://tools.ietf.org/html/rfc1951">rfc1951</a> (deflate format) and <a href="http://tools.ietf.org/html/rfc1952">rfc1952</a> (gzip format). */</p>
Kernel.org	Rdma-core 46.0.1	<p>You may choose to be licensed under the terms of the OpenIB.org BSD (MIT variant) license (see COPYING.BSD_MIT) or the GNU General Public License (GPL) Version 2 (see COPYING.GPL2), both included in this package.</p> <p># License Catalog (Informative, Non Binding)</p> <p>## Utilities</p> <p>Utility source code that may be linked into any binary are available under several licenses:</p> <ul style="list-style-type: none"> <li>- MIT license (see ccan/LICENSE.MIT)</li> <li>- Creative Commons CC0 1.0 Universal License (see ccan/LICENSE.CC0)</li> </ul> <p>## Providers</p> <p>The following providers use a different license than the Default Dual License. Refer to files in each directory for details.</p> <p>hfi1verbs  : Dual License: GPLv2 or Intel 3 clause BSD license</p> <p>ipathverbs  : Dual License: GPLv2 or PathScale BSD Patent license</p> <p>ocrdma  : Dual License: GPLv2 or OpenIB.org BSD (FreeBSD variant), See COPYING.BSD_FB</p> <p>## Libraries</p> <p>All library compilable source code (.c and .h files) are available under the Default Dual License.</p> <p>Unmarked ancillary files may be available under a Dual License: GPLv2 or OpenIB.org BSD (FreeBSD variant).</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<pre>## Tools (iwpmc, srp_daemon, ibacm)  All compilable source code (.c and .h files) are available under the Default Dual License.  Unmarked ancillary files may be available under a Dual License: GPLv2 or OpenIB.org BSD (FreeBSD variant).  srp_daemon/srp_daemon/srp_daemon.sh: Any one of the GPLv2, a 2 clause BSD license or the CPLv1.  ===== libmlx =====  This software is available to you under a choice of one of two licenses. You may choose to be licensed under the terms of the OpenIB.org BSD license or the GNU General Public License (GPL) Version 2, both included below.  Copyright (c) 2007 Cisco, Inc. All rights reserved.  =====  OpenIB.org BSD license  Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  * 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 OWNER 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</pre>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p> <p>=====</p> <p>GNU GENERAL PUBLIC LICENSE Version 2, June 1991</p> <p>Also add information on how to contact you by electronic and paper mail.</p> <p>If the program is interactive, make it output a short notice like this when it starts in an interactive mode:</p> <p>Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.</p> <p>The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.</p> <p>You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:</p> <p>Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.</p> <p>&lt;signature of Ty Coon&gt;, 1 April 1989 Ty Coon, President of Vice</p> <p>This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.</p>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Linaro Limited	Open Data Plane API 1.41.0.0	<p>Copyright (c) 2013-2018, Linaro Limited All rights reserved.</p> <p>SPDX-License-Identifier: BSD-3-Clause</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 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. Neither the name of Linaro Limited nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>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.</p>
Lua.org, PUC-Rio	Lua – 5.1.4-15	<p>Copyright © 1994–2010 Lua.org, PUC-Rio.</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p>
Lucent Technologies	Lucent RADIUS 1992	<p>Copyright 1992-1999 Lucent Technologies Inc. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ul style="list-style-type: none"> <li>• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>• 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.</li> <li>• All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by Lucent Technologies and its contributors.</li> </ul>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>• 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.</p> <p>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.</p>
Mark Pulford	Lua-cjson 2.1.0.12	<p>Copyright (c) 2010-2012 Mark Pulford</p> <p>LICENSE NAME: MIT</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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. -</p>
Microsoft Corporation	WA Linux Agent 2.7.0.6-9.0.1	<p>Microsoft Azure Linux Agent</p> <p>Copyright 2012 Microsoft Corporation</p> <p>This product includes software developed at Microsoft Corporation (<a href="http://www.microsoft.com/">http://www.microsoft.com/</a>).</p> <p>Copyright 2016 Microsoft Corporation</p> <p>Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.</p> <p>You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a></p> <p>Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.</p> <p>See the License for the specific language governing permissions and limitations under the License.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		Apache 2.0 - See APPENDIX D
Mike Pall	LUA BitOp 1.0.2	<p>Lua BitOp is Copyright (C) 2008-2009 Mike Pall.</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p>
Miroslav Lichvar	Chrony 4.3-1.0.1	<p>GNU GENERAL PUBLIC LICENSE</p> <p>Version 2, June 1991</p> <p>See Appendix B</p>
Mozilla	Ca-certificates 2023.2.60_v7.0.306-90.1	<p><a href="#">Mozilla License</a></p>
Nginx	Nginx 1.22.1-5.0.1	<ul style="list-style-type: none"> <li>* Copyright (C) 2002-2021 Igor Sysoev</li> <li>* Copyright (C) 2011-2021 Nginx, Inc.</li> <li>* All rights reserved.</li> <li>* Redistribution and use in source and binary forms, with or without</li> <li>* modification, are permitted provided that the following conditions</li> <li>* are met:</li> <li>* 1. Redistributions of source code must retain the above copyright</li> <li>* notice, this list of conditions and the following disclaimer.</li> <li>* 2. Redistributions in binary form must reproduce the above copyright</li> <li>* notice, this list of conditions and the following disclaimer in the</li> <li>* documentation and/or other materials provided with the distribution.</li> <li>* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS''</li> <li>AND</li> <li>* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE</li> <li>* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR</li> <li>PURPOSE</li> </ul>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE</p> <p>* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL</p> <p>* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS</p> <p>* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)</p> <p>* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT</p> <p>* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY</p> <p>* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF</p> <p>* SUCH DAMAGE.</p>
Nornagon	Luna Wrapper 20140507	<p>Written by nornagon. Available under the BSD 2-clause license.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>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.</p>
Open Market, Inc.	FastCGI Developer's Kit 2.4.2	<p>Copyright © 1996 Open Market, Inc. 245 First Street, Cambridge, MA 02142 U.S.A. Tel: 617-621-9500 Fax: 617-621-1703 URL: <a href="http://www.openmarket.com/">http://www.openmarket.com/</a>, <a href="http://www.mit.edu/afs.new/sipb/user/yandros/doc/specs/fcgi-spec.html">http://www.mit.edu/afs.new/sipb/user/yandros/doc/specs/fcgi-spec.html</a></p> <p>-----</p> <p>This FastCGI application library source and object code (the "Software") and its documentation (the "Documentation") are copyrighted by Open Market, Inc ("Open Market"). The following terms apply to all files associated with the Software and Documentation unless explicitly disclaimed in individual files.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>Open Market permits you to use, copy, modify, distribute, and license this Software and the Documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this Software and Documentation may be copyrighted by their authors and need not follow the licensing terms described here. If modifications to this Software and Documentation have new licensing terms, the new terms must be clearly indicated on the first page of each file where they apply.</p> <p>OPEN MARKET MAKES NO EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE SOFTWARE OR THE DOCUMENTATION, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL OPEN MARKET BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES ARISING FROM OR RELATING TO THIS SOFTWARE OR THE DOCUMENTATION, INCLUDING, WITHOUT LIMITATION, ANY INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR SIMILAR DAMAGES, INCLUDING LOST PROFITS OR LOST DATA, EVEN IF OPEN MARKET HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOFTWARE AND DOCUMENTATION ARE PROVIDED "AS IS". OPEN MARKET HAS NO LIABILITY IN CONTRACT, TORT, NEGLIGENCE OR OTHERWISE ARISING OUT OF THIS SOFTWARE OR THE DOCUMENTATION.</p>
Open Source	Expat 2.5.0-1	<p>Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper Copyright (c) 2001-2022 Expat maintainers</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p>
OpenSSL Project	OpenSSL 3.0.7-25.0.1	Apache 2.0 - See APPENDIX D
Oracle	JavaScript Extension Toolkit (JET) 15.0.0	<a href="#">OJET License</a>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Pablo Neira Ayuso	Libmnl 1.0.4-15	LGPL 2.1 - See APPENDIX A
Patrick McHardy	Nftables 1.0.4-11	GPL 2.0 - See APPENDIX B
Paul Wouters et al	Libreswan 4.12-1.0.1	Except for the DES library, MD5 code, and linux/net/ipsec/radij.c this software is under the GNU General Public License (GPL)  See Appendix A
Petri Lehtinen	Jansson 2.14-1	Copyright (c) 2009-2020 Petri Lehtinen <petri@digip.org>  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.
Python.org	Python (platform and Python-libs) 3.9.18-1	<a href="#">Python License</a>
Rainer Gerhards	Rsyslog - 8.2102.0-117	* The rsyslog runtime library is in general reentrant and thread-safe. There * are some intentional exceptions (e.g. inside the msg object). These are * documented. Any other threading and reentrancy issue can be considered a bug. * * Module begun 2008-04-16 by Rainer Gerhards * * Copyright 2008-2016 Rainer Gerhards and Adiscon GmbH. * * This file is part of the rsyslog runtime library. * * The rsyslog runtime library is free software: you can redistribute it and/or

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>modify</p> <ul style="list-style-type: none"> <li>* it under the terms of the GNU Lesser General Public License as published by</li> <li>* the Free Software Foundation, either version 3 of the License, or</li> <li>* (at your option) any later version.</li> <li>*</li> <li>* The rsyslog runtime library is distributed in the hope that it will be useful,</li> <li>* but WITHOUT ANY WARRANTY; without even the implied warranty of</li> <li>* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the</li> <li>* GNU Lesser General Public License for more details.</li> <li>*</li> <li>* You should have received a copy of the GNU Lesser General Public License</li> <li>* along with the rsyslog runtime library. If not, see</li> <li>&lt;<a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>&gt;.</li> <li>*</li> <li>* A copy of the GPL can be found in the file "COPYING" in this distribution.</li> <li>* A copy of the LGPL can be found in the file "COPYING.LESSER" in this distribution.</li> </ul> <p>GNU GENERAL PUBLIC LICENSE</p> <p>Version 3, 29 June 2007</p> <p>See Appendix C</p> <p style="text-align: center;">How to Apply These Terms to Your New Programs</p> <p>If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.</p> <p>To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.</p> <p>&lt;one line to give the program's name and a brief idea of what it does.&gt;</p> <p>Copyright (C) &lt;year&gt; &lt;name of author&gt;</p> <p>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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>the Free Software Foundation, either version 3 of the License, or (at your option) any later version.</p> <p>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. See the GNU General Public License for more details.</p> <p>You should have received a copy of the GNU General Public License along with this program. If not, see &lt;<a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>&gt;.</p> <p>Also add information on how to contact you by electronic and paper mail.</p> <p>If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:</p> <pre>&lt;program&gt; Copyright (C) &lt;year&gt; &lt;name of author&gt;</pre> <p>This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.</p> <p>This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.</p> <p>The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".</p> <p>You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see &lt;<a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>&gt;.</p> <p>The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read &lt;<a href="http://www.gnu.org/philosophy/why-not-lgpl.html">http://www.gnu.org/philosophy/why-not-lgpl.html</a>&gt;.</p>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<pre> #####4th Party Dependencies #####  Summary: Event expression library inspired by CEE Name: libee Version: 0.4.1-6.6  License: LGPLv2+ and MIT and GPL+  * Implements event object methods. **/* Libee - An Event Expression Library inspired by CEE * Copyright 2010,2011 by Rainer Gerhards and Adiscon GmbH. * * This file is part of libee. * * 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 library 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. See the GNU * Lesser General Public License for more details. * * You should have received a copy of the GNU Lesser General Public * License along with this library; if not, write to the Free Software * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA * * A copy of the LGPL v2.1 can be found in the file "COPYING" in this distribution.  LGPLV2.1: LGPL 2.1 - See APPENDIX A  #####  Name: libestr Version: 0.1.9-2.2 </pre>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>Summary: String handling essentials library</p> <p>License: LGPLv2+</p> <p>* libestr - some essentials for string handling (and a bit more)</p> <p>* Copyright 2010 by Rainer Gerhards and Adiscon GmbH.</p> <p>*</p> <p>* This file is part of libestr.</p> <p>*</p> <p>* This library is free software; you can redistribute it and/or</p> <p>* modify it under the terms of the GNU Lesser General Public</p> <p>* License as published by the Free Software Foundation; either</p> <p>* version 2.1 of the License, or (at your option) any later version.</p> <p>*</p> <p>* This library is distributed in the hope that it will be useful,</p> <p>* but WITHOUT ANY WARRANTY; without even the implied warranty of</p> <p>* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU</p> <p>* Lesser General Public License for more details.</p> <p>*</p> <p>* You should have received a copy of the GNU Lesser General Public</p> <p>* License along with this library; if not, write to the Free Software</p> <p>* Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA</p> <p>*</p> <p>* A copy of the LGPL v2.1 can be found in the file "COPYING" in this distribution.</p> <p>*/</p> <p>See above for copy of LGPL v2.1 license</p> <p>##### ###</p> <p>Name: libfastjson</p> <p>Version: 0.99.4</p> <p>Release: 3%{?dist}</p> <p>Summary: A JSON implementation in C</p> <p>Copyright (c) 2015 Rainer Gerhards</p> <p>Permission is hereby granted, free of charge, to any person obtaining a</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p> <p>-----</p> <p>Copyright (c) 2009-2012 Eric Haszlakiewicz</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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.</p> <p>-----</p> <p>Copyright (c) 2004, 2005 Metaparadigm Pte Ltd</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p> <p>#####</p> <p>liblogging-1.0.6</p> <p>Copyright 2002-2014</p> <p>Rainer Gerhards and Adiscon GmbH. All Rights Reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>* Redistributions of source code must retain the above copyright</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>notice, this list of conditions and the following disclaimer.</p> <p>* 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.</p> <p>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 OWNER 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.</p>
Red Hat	Popt 1.18-8	<p>Copyright (c) 1998 Red Hat Software 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.</p> <p>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 X CONSORTIUM 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.</p> <p>Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.</p>
Red Hat, Inc.	Iscsi-initiator-utils 6.2.1.4- 3.git2a8f9d8.0.1	<p>GNU GENERAL PUBLIC LICENSE</p> <p>Version 2, June 1991</p> <p>See Appendix B</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
Regents of the University of California	Uipc_mbuf – 8.2	<p>* Copyright (c) 1982, 1986, 1988, 1991, 1993</p> <p>* The Regents of the University of California. All rights reserved.</p> <p>*</p> <p>* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p> <p>* 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.</p> <p>* 3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND</p> <p>* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE</p> <p>* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE</p> <p>* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE</p> <p>* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL</p> <p>* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS</p> <p>* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)</p> <p>* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT</p> <p>* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY</p> <p>* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF</p> <p>* SUCH DAMAGE.</p>
Regents of the University of California	Fastpath TCP Stack 3.0.0-374a924	<p>* Copyright (c) 1982, 1986, 1990, 1993, 1994</p> <p>* The Regents of the University of California. All rights reserved.</p> <p>* Copyright (c) 2015 Nokia Solutions and Networks</p> <p>* Copyright (c) 2015 Enea Software AB</p> <p>* Redistribution and use in source and binary forms, with or without</p> <p>* modification, are permitted provided that the following conditions</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>* are met:</p> <ul style="list-style-type: none"> <li>* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>* 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.</li> <li>* 4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</li> </ul> <p>* THIS SOFTWARE IS PROVIDED BY THE REGENTS 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 REGENTS 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.</p>
Reuben Thomas and Schmuel Zeigerman	Lrexlib 2.9.1	<p>Copyright (C) Reuben Thomas 2000-2020  Copyright (C) Shmuel Zeigerman 2004-2020</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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.</p>
Russ Cox and Jef Poskanzer	Libghttpd.a - Gperftools-httpd/0.2 2006/10/18	<p>Copyright &lt;EF&gt;&lt;BF&gt;&lt;BD&gt; 1995,1998,1999,2000,2001 by Jef Poskanzer &lt;jef@mail.acme.com&gt;.</p> <p>All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE AUTHOR 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 AUTHOR 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.</p>
SGI	numactl 2.0.16-1	LGPL 2.1 - See APPENDIX A
Software Freedom Conservancy	Busybox 1.36.1	<p>GNU GENERAL PUBLIC LICENSE Version 2, June 1991</p> <p>See Appendix B</p>
Tatsuhiko Tsujikawa	Nghttp2 Library 1.43.0-5	<p>Tatsuhiko Tsujikawa &lt;t-tujikawa at users dot sourceforge dot net&gt;</p> <p>From COPYING file:</p> <p>The MIT License</p> <p>Copyright (c) 2012, 2014, 2015 Tatsuhiko Tsujikawa</p>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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:</p> <p>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.</p>
Ted Felix	Acpid 2.0.32-7	<a href="#">Acpid License</a>
Theodore Ts'o	e2fsprogs 1.46.5-3	LGPL 2.1 - See APPENDIX A
Theodore Ts'o	Util-linux 2.37.4-15.0.1	<p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.</li> <li>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.</li> <li>3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.</li> </ol> <p>THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR 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 NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p> <p>"randutils.c" file is licensed under LGPL as indicated in its header (no license file provided):</p> <p>/* * General purpose random utilities *</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>* Based on libuuid code. *</p> <p>* This file may be redistributed under the terms of the</p> <p>* GNU Lesser General Public License. */</p> <p>GNU LGPL LICENSE: LGPL 2.1 - See APPENDIX A</p>
Thomas Graf	Libnl3 3.7.0-1	LGPL 2.1 - See APPENDIX A
Tim Kientzle	Libarchive 3.5.3-4	<p>* Except as listed below, all C sources (including .c and .h files) and documentation files are subject to the copyright notice reproduced at the bottom of this file.</p> <p>* The following source files are also subject in whole or in part to a 3-clause UC Regents copyright; please read the individual source files for details:</p> <p>libarchive/archive_read_support_filter_compress.c libarchive/archive_write_add_filter_compress.c libarchive/mtree.5</p> <p>* The following source files are in the public domain:</p> <p>libarchive/archive_getdate.c</p> <p>* The following source files are triple-licensed with the ability to choose from CC0 1.0 Universal, OpenSSL or Apache 2.0 licenses:</p> <p>libarchive/archive_blake2.h libarchive/archive_blake2_impl.h libarchive/archive_blake2s_ref.c libarchive/archive_blake2sp_ref.c</p> <p>* The build files---including Makefiles, configure scripts, and auxiliary scripts used as part of the compile process---have widely varying licensing terms. Please check individual files before distributing them to see if those restrictions apply to you.</p> <p>I intend for all new source code to use the license below and hope over time to replace code with other licenses with new implementations that do use the license below. The</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>varying licensing of the build scripts seems to be an unavoidable mess.</p> <p>Copyright (c) 2003-2018 &lt;author(s)&gt; All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer in this position and unchanged.</li> <li>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.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) "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.</p> <p>IN NO EVENT SHALL THE AUTHOR(S) 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.</p>
University of Cambridge	Perl-Compatible Regular Expressions pcre 8.44-3	<p>PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.</p> <p>Release 8 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.</p> <p>The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>THE BASIC LIBRARY FUNCTIONS -----</p> <p>Written by: Philip Hazel Email local part: ph10 Email domain: cam.ac.uk</p> <p>University of Cambridge Computing Service, Cambridge, England.</p> <p>Copyright (c) 1997-2012 University of Cambridge All rights reserved.</p> <p>PCRE JUST-IN-TIME COMPILATION SUPPORT -----</p> <p>Written by: Zoltan Herczeg Email local part: hzmester Email domain: freemail.hu Copyright(c) 2010-2012 Zoltan Herczeg All rights reserved.</p> <p>STACK-LESS JUST-IN-TIME COMPILER -----</p> <p>Written by: Zoltan Herczeg Email local part: hzmester Email domain: freemail.hu Copyright(c) 2009-2012 Zoltan Herczeg All rights reserved.</p> <p>THE C++ WRAPPER FUNCTIONS -----</p> <p>Contributed by: Google Inc. Copyright (c) 2007-2012, Google Inc. All rights reserved.</p> <p>THE "BSD" LICENCE -----</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>* 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.</p> <p>* Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>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 OWNER 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.</p>
VMware	Open-vm-tools 12.2.5-3.0.1	Copyright (C) 2007-2018 VMware, Inc. All rights reserved. LGPL 2.1 - See APPENDIX A
Valery Kholodkov	Nginx-upload-module 2.3.0-643b4c1	<p>* Copyright (c) 2006, 2008, Valery Kholodkov</p> <p>* All rights reserved.</p> <p>* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>* * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p> <p>* * 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.</p> <p>* * Neither the name of the Valery Kholodkov nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>* THIS SOFTWARE IS PROVIDED BY VALERY KHOLODKOV "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE</p> <p>* DISCLAIMED. IN NO EVENT SHALL VALERY KHOLODKOV BE LIABLE FOR ANY</p> <p>* DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES</p> <p>* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;</p> <p>* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND</p> <p>* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT</p> <p>* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS</p> <p>* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p>
Vovida Networks	SIP 1.5.0	<p>The Vovida Software License, Version 1.0</p> <p>Copyright (c) 2000 Vovida Networks, Inc. All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>3. The names "VOCAL", "Vovida Open Communication Application Library", and "Vovida Open Communication Application Library (VOCAL)" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact <a href="mailto:vocal@vovida.org">vocal@vovida.org</a>.</li> <li>4. Products derived from this software may not be called "VOCAL", nor may "VOCAL" appear in their name, without prior written permission of Vovida Networks, Inc.</li> </ol> <p>THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL VOVIDA</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>NETWORKS, INC. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT DAMAGES IN EXCESS OF ,000, NOR FOR ANY 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.</p> <p>=====</p> <p>This software consists of voluntary contributions made by Vovida Networks, Inc. and many individuals on behalf of Vovida Networks, Inc.</p> <p>=====</p> <p>=====</p>
Vyacheslav Trushkin	Iotop – 0.1	<p>GNU GENERAL PUBLIC LICENSE</p> <p>Version 2, June 1991</p> <p>See Appendix B</p>
Wind River Systems, Inc.	TCP/IP Stack – 3.6	<p>The Software licensed under the Agreement may contain or be derived from materials of third party licensors. Such third party materials may be subject to restrictions in addition to those listed in Section 3, which restrictions, if any, are set forth in Exhibit attached in the agreement. (Agreement, Sec. 3(a)(viii) – Pg. 3)</p> <p>The Software licensed under the Agreement may contain or be derived from materials of third party licensors (“Third Party Software”). In addition to the terms of the Agreement, such Third Party Software may be subject to additional terms, which, if any, are set forth in the Third Party Software file. Third Party Software is excluded from the definition of Software for the purposes of Section 12 of the Agreement (“Wind River’s Indemnity”), including but not limited to, any software licensed under the Eclipse Public License, Academic Free License, Apache Software License, Artistic License, BSD License, Mozilla Public License, Python License or any other similar license. (Exhibit A-2, Sec. 2 – Pg. 1)</p> <p>Except with respect to Wind River support obligations contained in Section 11 of the Agreement, the definition of Software excludes all materials provided Wind River to Acme Packet to the extent such materials are subject to any of the following licenses – GNU General Public License, GNU Library General Public License, GNU Lesser General Public License or other substantially similar open source license. Such materials are not subject to the terms of the Agreement, and are licensed solely under the terms of such licenses. (Exhibit A-2, Sec. 2 – Pg. 2)</p> <p>Note - The Software may contain Third Party Components. Do NOT use or distribute such third party programs without first contacting legal.</p>
XenSource Inc.	Xen Hypervisor	Copyright (c) 2007, XenSource Inc.

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
	Detection 3.1	<p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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.</p>
OpenBSD	OpenSSH 8.7p1-34	<ul style="list-style-type: none"> <li>* Author: Tatu Ylonen</li> <li>* Copyright (c) 1995 Tatu Ylonen , Espoo, Finland</li> <li>* All rights reserved</li> <li>* Password authentication. This file contains the functions to check whether</li> <li>* the password is valid for the user.</li> <li>*</li> <li>* As far as I am concerned, the code I have written for this software</li> <li>* can be used freely for any purpose. Any derived versions of this</li> <li>* software must be clearly marked as such, and if the derived work is</li> <li>* incompatible with the protocol description in the RFC file, it must be</li> <li>* called by a name other than "ssh" or "Secure Shell".</li> <li>*</li> <li>* Copyright (c) 1999 Dug Song. All rights reserved.</li> <li>* Copyright (c) 2000 Markus Friedl. All rights reserved.</li> <li>*</li> <li>* Redistribution and use in source and binary forms, with or without</li> <li>* modification, are permitted provided that the following conditions</li> <li>* are met:</li> <li>* 1. Redistributions of source code must retain the above copyright</li> <li>* notice, this list of conditions and the following disclaimer.</li> <li>* 2. Redistributions in binary form must reproduce the above copyright</li> <li>* notice, this list of conditions and the following disclaimer in the</li> <li>* documentation and/or other materials provided with the distribution.</li> <li>*</li> <li>* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR</li> <li>* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED</li> </ul>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>WARRANTIES</p> <p>* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.</p> <p>* IN NO EVENT SHALL THE AUTHOR 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.* /</p>
Tcpcap project	Libpcap 1.10.0-4	<p>"Include the following in documentation:</p> <p>/* Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998</p> <p>* The Regents of the University of California. All rights reserved.</p> <p>*</p> <p>* Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>* 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</p> <p>* 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.</p> <p>* 3. All advertising materials mentioning features or use of this software must display the following acknowledgement:</p> <p>* This product includes software developed by the Computer Systems Engineering Group at Lawrence Berkeley Laboratory.</p> <p>* 4. Neither the name of the University nor of the Laboratory may be used to endorse or promote products derived from this software without specific prior written permission.</p> <p>*</p> <p>* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND</p> <p>* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE</p> <p>* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>PURPOSE</p> <p>* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE</p> <p>* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL</p> <p>* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS</p> <p>* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)</p> <p>* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT</p> <p>* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY</p> <p>* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF</p> <p>* SUCH DAMAGE. */</p> <p>Bison parser used pursuant to the following exception:</p> <p>/* A Bison parser, made by GNU Bison 3.0.4. */</p> <p>/* Bison implementation for Yacc-like parsers in C</p> <p>Copyright (C) 1984, 1989-1990, 2000-2015 Free Software Foundation, Inc.</p> <p>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.</p> <p>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. See the GNU General Public License for more details.</p> <p>You should have received a copy of the GNU General Public License along with this program. If not, see . */</p> <p>/* As a special exception, you may create a larger work that contains part or all of the Bison parser skeleton and distribute that work</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>under terms of your choice, so long as that work isn't itself a parser generator using the skeleton or a modified version thereof as a parser skeleton. Alternatively, if you modify or redistribute the parser skeleton itself, you may (at your option) remove this special exception, which will cause the skeleton and the resulting Bison output files to be licensed under the GNU General Public License without this special exception.</p> <p>This special exception was added by the Free Software Foundation in version 2.2 of Bison. */</p> <p>/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called ""semantic"" parser. */</p>
The OpenSSL Project	(4 <sup>th</sup> party components of OpenSSL)	<p>This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).</p> <p>Original SSLeay License -----</p> <p>Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.</p> <p>* This package is an SSL implementation written by Eric Young (eay@cryptsoft.com). The implementation was written so as to conform with Netscape's SSL.</p> <p>This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).</p> <p>Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <p>1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>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.</p> <p>3. All advertising materials mentioning features or use of this software must display the following acknowledgement: "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)" The word 'cryptographic' can be left out if the routines from the library being used are not cryptographic related :-).</p> <p>4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement: "This product includes software written by Tim Hudson (<a href="mailto:tjh@cryptsoft.com">tjh@cryptsoft.com</a>)"</p> <p>THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``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 AUTHOR 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.</p> <p>The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License.]</p> <p>Copyright (c) 2004, Richard Levitte <a href="mailto:richard@levitte.org">richard@levitte.org</a> All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE REGENTS 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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS 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.</p> <p>Copyright 2002 Sun Microsystems, Inc. ALL RIGHTS RESERVED.</p> <p>Portions of the attached software ('Contribution') are developed by SUN MICROSYSTEMS, INC., and are contributed to the OpenSSL project.</p> <p>The Contribution is licensed pursuant to the Eric Young open source license provided above.</p> <p>The binary polynomial arithmetic software is originally written by Sheueling Chang Shantz and Douglas Stebila of Sun Microsystems Laboratories.</p> <p>Copyright 2006 NTT (Nippon Telegraph and Telephone Corporation). ALL RIGHTS RESERVED.</p> <p>Intellectual Property information for Camellia:  <a href="http://info.isl.ntt.co.jp/crypt/eng/info/chiteki.html">http://info.isl.ntt.co.jp/crypt/eng/info/chiteki.html</a></p> <p>News Release for Announcement of Camellia open source:  <a href="http://www.ntt.co.jp/news/news06e/0604/060413a.html">http://www.ntt.co.jp/news/news06e/0604/060413a.html</a></p> <p>The Camellia Code included herein is developed by NTT (Nippon Telegraph and Telephone Corporation), and is contributed to the OpenSSL project.</p> <p>The Camellia Code is licensed pursuant to the OpenSSL open source license provided below.</p> <p>Copyright 2006 NTT (Nippon Telegraph and Telephone Corporation). ALL RIGHTS RESERVED.</p> <p>Intellectual Property information for Camellia:  <a href="http://info.isl.ntt.co.jp/crypt/eng/info/chiteki.html">http://info.isl.ntt.co.jp/crypt/eng/info/chiteki.html</a></p> <p>News Release for Announcement of Camellia open source:  <a href="http://www.ntt.co.jp/news/news06e/0604/060413a.html">http://www.ntt.co.jp/news/news06e/0604/060413a.html</a></p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>The Camellia Code included herein is developed by NTT (Nippon Telegraph and Telephone Corporation), and is contributed to the OpenSSL project.</p> <p>The Camellia Code is licensed pursuant to the OpenSSL open source license provided below.</p> <p>Copyright 2002 Sun Microsystems, Inc. ALL RIGHTS RESERVED.</p> <p>The Elliptic Curve Public-Key Crypto Library (ECC Code) included herein is developed by SUN MICROSYSTEMS, INC., and is contributed to the OpenSSL project.</p> <p>The ECC Code is licensed pursuant to the OpenSSL open source license</p> <p>The software is originally written by Sheueling Chang Shantz and Douglas Stebila of Sun Microsystems Laboratories.</p> <p>Copyright (c) 2002 Bob Beck &lt;beck@openbsd.org&gt;  Copyright (c) 2002 Theo de Raadt  Copyright (c) 2002 Markus Friedl  All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE AUTHOR 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 AUTHOR 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</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>DAMAGE.</p> <p>Copyright (c) 2005 Hewlett-Packard Development Company, L.P.</p> <p>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:</p> <p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p> <p>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. */</p> <p>Contributed to the OpenSSL Project 2004 by Richard Levitte (richard@levitte.org)</p> <p>Copyright (c) 2004 Kungliga Tekniska Hogskolan (Royal Institute of Technology, Stockholm, Sweden). All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> <li>3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software</li> </ol>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>without specific prior written permission.</p> <p>THIS SOFTWARE IS PROVIDED BY THE INSTITUTE 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 INSTITUTE 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.</p> <p>ModExp / RSA (with/without KM) plugin API</p> <p>This file is Copyright 1998-2000 nCipher Corporation Limited.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the copyright notice, this list of conditions, and the following disclaimer.</li> <li>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</li> </ol> <p>IN NO EVENT SHALL NCIPHER CORPORATION LIMITED ('NCIPHER') AND/OR ANY OTHER AUTHORS OR DISTRIBUTORS OF THIS FILE BE LIABLE for any damages arising directly or indirectly from this file, its use or this licence. Without prejudice to the generality of the foregoing: all liability shall be excluded for direct, indirect, special, incidental, consequential or other damages or any loss of profits, business, revenue goodwill or anticipated savings; liability shall be excluded even if nCipher or anyone else has been advised of the possibility of damage. In any event, if the exclusion of liability is not effective, the liability of nCipher or any author or distributor shall be limited to the lesser of the</p>



Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>price paid and 1,000 pounds sterling. This licence only fails to exclude or limit liability for death or personal injury arising out of negligence, and only to the extent that such an exclusion or limitation is not effective.</p> <p>NCIPHER AND THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ALL AND ANY WARRANTIES (WHETHER EXPRESS OR IMPLIED), including, but not limited to, any implied warranties of merchantability, fitness for a particular purpose, satisfactory quality, and/or non-infringement of any third party rights.</p> <p>US Government use: This software and documentation is Commercial Computer Software and Computer Software Documentation, as defined in sub-paragraphs (a)(1) and (a)(5) of DFAR 252.227-7014, 'Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation' Use, duplication or disclosure by the Government is subject to the terms and conditions specified here.</p> <p>By using or distributing this file you will be accepting these terms and conditions, including the limitation of liability and lack of warranty. If you do not wish to accept these terms and conditions, DO NOT USE THE FILE.</p> <p>The actual dynamically loadable plugin, and the library files for static linking, which are also provided in some distributions, are not covered by the licence described above. You should have received a separate licence with terms and conditions for these library files; if you received the library files without a licence, please contact nCipher.</p> <p>Copyright 2005 Nokia. All rights reserved.</p> <p>The portions of the attached software ('Contribution') is developed by Nokia Corporation and is licensed pursuant to the OpenSSL open source license.</p> <p>The Contribution, originally written by Mika Kousa and Pasi Eronen of Nokia Corporation, consists of the &amp;quot;PSK&amp;quot; (Pre-Shared Key) ciphersuites support (see RFC 4279) to OpenSSL.</p> <p>No patent licenses or other rights except those expressly stated in the OpenSSL open source license shall be deemed granted or received expressly, by implication, estoppel, or otherwise.</p> <p>No assurances are provided by Nokia that the Contribution does not infringe the patent or other intellectual property rights of any third party or that the license provides you with all the necessary rights to make use of the Contribution.</p>

Vendor	Product(s) and Version(s)	Licensing Description/Disclaimer
		<p>THE SOFTWARE IS PROVIDED 'AS IS' WITHOUT WARRANTY OF ANY KIND. IN ADDITION TO THE DISCLAIMERS INCLUDED IN THE LICENSE, NOKIA SPECIFICALLY DISCLAIMS ANY LIABILITY FOR CLAIMS BROUGHT BY YOU OR ANY OTHER ENTITY BASED ON INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OR OTHERWISE.</p>
FreeBSD	(4 <sup>th</sup> party of SCTP)	<p>COPYRIGHT 8.2 (Berkeley) 3/21/94</p> <p>The compilation of software known as FreeBSD is distributed under the following terms:</p> <p>Copyright (c) 1992-2011 The FreeBSD Project. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none"> <li>1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</li> <li>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.</li> </ol> <p>THIS SOFTWARE IS PROVIDED BY THE AUTHOR 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 AUTHOR 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.</p>
Lasse Collin	Xz (liblzma) 5.2.5-8	liblzma is in the public domain

## Appendix A: GNU Lesser General Public License, 2.1 (LGPL-2.1)

<http://www.gnu.org/licenses/lgpl-2.1.html>

### GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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 recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those

libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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.
- 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.

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 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 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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the

Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

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.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the 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 specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY

KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

## Appendix B: GNU General Public License, version 2 (GPL-2.0)

<http://www.gnu.org/licenses/gpl-2.0.html>

### GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

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 software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that



you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#### GNU GENERAL PUBLIC LICENSE

#### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's 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 give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. 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 Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program 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 Program.

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.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the 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 Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

## NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

## Appendix C: GNU General Public License, version 3 (GPL-3.0)

<http://www.gnu.org/licenses/gpl-3.0.html>

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>  
Everyone is permitted to copy and distribute verbatim copies  
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as



changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that

is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

### 3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

#### 4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

#### 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive

interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product

is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.



## 7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or
- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some

trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

## 8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a)

provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

#### 9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

#### 10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an

organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

#### 11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

#### 12. No Surrender of Others' Freedom.

If 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 convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

#### 13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

#### 14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU 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 Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

#### 15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

#### 16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

## Appendix D: Apache Public License

<http://www.apache.org/licenses/LICENSE-2.0>

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 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

## Acpid License

Main credit:

Copyright (C) 2008-2009, Ted Felix ([www.tedfelix.com](http://www.tedfelix.com))

Contributors:

Copyright (C) 1999-2000 Andrew Henroid

Copyright (C) 2001 Sun Microsystems ([thockin@sun.com](mailto:thockin@sun.com))

Portions Copyright (C) 2003 Sun Microsystems ([thockin@sun.com](mailto:thockin@sun.com))

Copyright (C) 2004 Tim Hockin ([thockin@hockin.org](mailto:thockin@hockin.org))

Portions from `acpi_gen1` Copyright (C) Zhang Rui <[rui.zhang@intel.com](mailto:rui.zhang@intel.com)>

/\*

\* connection\_list.c - ACPI daemon connection list

\*

\* Copyright (C) 2008, Ted Felix ([www.tedfelix.com](http://www.tedfelix.com))

\*

\* 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. See the

\* GNU General Public License for more details.

\*

\* You should have received a copy of the GNU General Public License

\* along with this program; if not, write to the Free Software  
\* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA  
\*  
\* Tabs at 4  
\*/

[See APPENDIX A - GNU Lesser General Public License, 2.1](#)

#### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

## GCC License

Copyright (C) 2000-2021 Free Software Foundation, Inc.

This file is intended to contain a few notes about writing C code within GCC so that it compiles without error on the full range of compilers GCC needs to be able to compile on.

The problem is that many ISO-standard constructs are not accepted by either old or buggy compilers, and we keep getting bitten by them.

This knowledge until now has been sparsely spread around, so I thought I'd collect it in one useful place. Please add and correct any problems as you come across them.

I'm going to start from a base of the ISO C90 standard, since that is probably what most people code to naturally. Obviously using constructs introduced after that is not a good idea.

For the complete coding style conventions used in GCC, please read <http://gcc.gnu.org/codingconventions.html>

String literals

-----

Some compilers like MSVC++ have fairly low limits on the maximum length of a string literal; 509 is the lowest we've come across. You may need to break up a long printf statement into many smaller ones.

Empty macro arguments

-----  
ISO C (6.8.3 in the 1990 standard) specifies the following:

If (before argument substitution) any argument consists of no preprocessing tokens, the behavior is undefined.

This was relaxed by ISO C99, but some older compilers emit an error, so code like

```
#define foo(x, y) x y  
foo (bar, )
```

needs to be coded in some other way.

Avoid unnecessary test before free  
-----

Since SunOS 4 stopped being a reasonable portability target, (which happened around 2007) there has been no need to guard against "free (NULL)". Thus, any guard like the following constitutes a redundant test:

```
if (P)  
    free (P);
```

It is better to avoid the test.[\*]  
Instead, simply free P, regardless of whether it is NULL.

[\*] However, if your profiling exposes a test like this in a performance-critical loop, say where P is nearly always NULL, and the cost of calling free on a NULL pointer would be prohibitively high, consider using `__builtin_expect`, e.g., like this:



```
if (__builtin_expect (ptr != NULL, 0))
    free (ptr);
```

## Trigraphs

-----

You weren't going to use them anyway, but some otherwise ISO C compliant compilers do not accept trigraphs.

## Suffixes on Integer Constants

-----

You should never use a 'l' suffix on integer constants ('L' is fine), since it can easily be confused with the number '1'.

## Common Coding Pitfalls

=====

### errno

-----

errno might be declared as a macro.

### Implicit int

-----

In C, the 'int' keyword can often be omitted from type declarations. For instance, you can write

```
unsigned variable;
```

as shorthand for

```
unsigned int variable;
```

There are several places where this can cause trouble. First, suppose 'variable' is a long; then you might think

```
(unsigned) variable
```

would convert it to unsigned long. It does not. It converts to unsigned int. This mostly causes problems on 64-bit platforms, where long and int are not the same size.

Second, if you write a function definition with no return type at all:

```
operate (int a, int b)
{
  ...
}
```

that function is expected to return int, \*not\* void. GCC will warn about this.

Implicit function declarations always have return type int. So if you correct the above definition to

```
void
operate (int a, int b)
...
```

but operate() is called above its definition, you will get an error about a "type mismatch with previous implicit declaration". The cure is to prototype all functions at the top of the file, or in an

appropriate header.

Char vs unsigned char vs int

-----

In C, unqualified 'char' may be either signed or unsigned; it is the implementation's choice. When you are processing 7-bit ASCII, it does not matter. But when your program must handle arbitrary binary data, or fully 8-bit character sets, you have a problem. The most obvious issue is if you have a look-up table indexed by characters.

For instance, the character '\341' in ISO Latin 1 is SMALL LETTER A WITH ACUTE ACCENT. In the proper locale, `isalpha('\341')` will be true. But if you read '\341' from a file and store it in a plain char, `isalpha(c)` may look up character 225, or it may look up character -31. And the ctype table has no entry at offset -31, so your program will crash. (If you're lucky.)

It is wise to use unsigned char everywhere you possibly can. This avoids all these problems. Unfortunately, the routines in `<string.h>` take plain char arguments, so you have to remember to cast them back and forth - or avoid the use of `strxxx()` functions, which is probably a good idea anyway.

Another common mistake is to use either char or unsigned char to receive the result of `getc()` or related stdio functions. They may return EOF, which is outside the range of values representable by char. If you use char, some legal character value may be confused with EOF, such as '\377' (SMALL LETTER Y WITH UMLAUT, in Latin-1). The correct choice is int.

A more subtle version of the same mistake might look like this:

```
unsigned char pushback[NPUSHBACK];
int pbidx;
```

```
#define ungetc(c) (assert(pbidx < NPUSHBACK), pushback[pbidx++] = (c))
#define get(c) (pbidx ? pushback[--pbidx] : getchar())
...
ungetc(EOF);
```

which will mysteriously turn a pushed-back EOF into a SMALL LETTER Y WITH UMLAUT.

#### Other common pitfalls

-----

- o Expecting 'plain' char to be either sign or unsigned extending.
  
- o Shifting an item by a negative amount or by greater than or equal to the number of bits in a type (expecting shifts by 32 to be sensible has caused quite a number of bugs at least in the early days).
  
- o Expecting ints shifted right to be sign extended.
  
- o Modifying the same value twice within one sequence point.
  
- o Host vs. target floating point representation, including emitting NaNs and Infinities in a form that the assembler handles.
  
- o qsort being an unstable sort function (unstable in the sense that multiple items that sort the same may be sorted in different orders by different qsort functions).
  
- o Passing incorrect types to fprintf and friends.
  
- o Adding a function declaration for a module declared in another file to a .c file instead of to a .h file.

-----

# Mozilla License

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

## Mozilla Public License

### Version 2.0

#### 1. Definitions

1.1. “Contributor” means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. “Contributor Version” means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor’s Contribution.

1.3. “Contribution” means Covered Software of a particular Contributor.

1.4. “Covered Software” means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. “Incompatible With Secondary Licenses” means that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. “Executable Form” means any form of the work other than Source Code Form.

1.7. “Larger Work” means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. “License” means this document.

1.9. “Licensable” means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. “Modifications” means any of the following: any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. “Secondary License” means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form” means the form of the work preferred for making modifications.

1.14. “You” (or “Your”) means an individual or a legal entity exercising rights under 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 (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

#### 2. License Grants and Conditions

##### 2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

## 2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

## 2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

## 2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

## 2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

## 2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

## 2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

# 3. Responsibilities

## 3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

## 3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and You may distribute such Executable Form under the terms of this License, or

sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

### 3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

### 3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

### 3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

## 4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

## 5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

## 6. Disclaimer of Warranty

Covered Software is provided under this License on an “as is” basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

## 7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party'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.

## 8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

## 9. 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 reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

## 10. Versions of the License

### 10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

### 10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

### 10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

### 10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice



This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <https://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

## OJET License

You may not use the identified files except in compliance with the Universal Permissive License (UPL), Version 1.0 (the "License.")

Copyright (c) 2014, 2023 Oracle and/or its affiliates

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both

(a) the Software, and (b) any piece of software and/or hardware listed in the Irgwrks.txt file if one is included with the Software (each a Larger Work to which the Software is contributed by such licensors), without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference

to the UPL must 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.

-----

DO NOT TRANSLATE OR LOCALIZE.

\*\*\*\*\*

Oracle elects to use only the GNU Lesser General Public License version 2.1 (LGPL) for any software where a choice of LGPL/GPL license versions are made available with the language indicating that LGPLv2.1/GPLv2 or any later version may be used, or where a choice of which version of the LGPL/GPL is applied is unspecified.

\*\*\*\*\*

THIRD-PARTY COMPONENT FILE	LICENSE
(path in the installation)	(see license text reproduced below)

-----

js/libs/chai/chai	MIT
js/libs/hammer/hammer	MIT
js/libs/js-signals/signals.	MIT
js/libs/jquery/jquery	MIT
js/libs/jquery/jquery-ui.custom.	MIT
js/libs/jquery/jqueryui-amd/core	MIT
js/libs/jquery/jqueryui-amd/draggable	MIT
js/libs/jquery/jqueryui-amd/mouse	MIT
js/libs/jquery/jqueryui-amd/position	MIT
js/libs/jquery/jqueryui-amd/sortable	MIT
js/libs/jquery/jqueryui-amd/widget	MIT

js/libs/knockout/knockout	MIT
js/libs/knockout/knockout-mapping-latest.js	MIT
js/libs/oj/v15.0.0/min/ojcspexpressionevaluator (cspexpressionevaluator.js)	MIT
js/libs/oj/v15.01.0/min/ojexpparser	MIT
js/libs/oj/v15.0.0/min/ojknockout	MIT
js/libs/oj/v15.0.0/min/ojselectcombobox.	Apache 2.0
js/libs/oj/v15.0.0/ojtree	MIT
js/libs/oj/v15.0.0/ojL10n	MIT
js/libs/proj4js/dist/proj4	Proj4js
js/libs/require/require	MIT
js/libs/require/text	MIT
js/libs/require-css/css.min	MIT
scss/oj/v15.0.0/3rdparty/normalize/normalize.scss	MIT
js/libs/touchr/touchr.js	MIT
js/libs/preact/dist/preact.umd.js	MIT

Chai

<https://github.com/chaijs/chai>

Copyright (c) 2017 Chai.js Assertion Library

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.

expression-eval

<https://github.com/donmccurdy/expression-eval>

Copyright (c) 2017 Don McCurdy

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.

jsep -

<https://github.com/soney/jsep>

Copyright (c) 2013 Stephen Oney, <https://ericmekens.github.io/jsep/>

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.

Knockout Fast Foreach

By: Brian M Hunt (C) 2015 | License: MIT

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.

proj4js

<http://proj4js.org/>

Copyright (C) 2014 Mike Adair, Richard Greenwood, Didier Richard, Stephen Irons, Olivier Terral and Calvin Metcalf;

Licensed under the Proj4js license

require-css

<https://github.com/guybedford/require-css>

Copyright (C) 2013 Guy Bedford

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.

Hammer.JS

<http://hammerjs.github.io/>

Copyright (C) 2011-2017 by Jorik Tangelder (Eight Media)

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.

Foundation Responsive Library

<http://foundation.zurb.com>

Copyright 2014, ZURB

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.

Normalize.scss

Copyright © Nicolas Gallagher and Jonathan Neal

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.

RequireJS i18n

<http://github.com/requirejs/i18n> for details

Copyright (c) 2010-2011, The Dojo Foundation

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.

jsTree <http://jstree.com/>

Copyright (c) 2012 Ivan Bozhanov (<http://vakata.com>)

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.

select2.js

<https://github.com/select2/select2>

Copyright 2012 Igor Vaynberg

This software is licensed under the Apache License, Version 2.0 (the "Apache License") or the GNU General Public License version 2 (the "GPL License"). You may choose either license to govern your use of this software only upon the condition that you accept all of the terms of either the Apache License or the GPL License.

You may obtain a copy of the Apache License and the GPL License at:

<http://www.apache.org/licenses/LICENSE-2.0>

<http://www.gnu.org/licenses/gpl-2.0.html>

Unless required by applicable law or agreed to in writing, software distributed under the Apache License or the GPL License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License and the GPL License for

the specific language governing permissions and limitations under the Apache License and the GPL License.

jQuery UI -

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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.

jQuery JavaScript Library

<http://jquery.com/>

Copyright OpenJS Foundation and other contributors, <https://openjsf.org/>

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.

JS Signals <<http://millermedeiros.github.com/js-signals/>>

Author: Miller Medeiros

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.

RequireJS text

<http://github.com/requirejs/text>

Copyright jQuery Foundation and other contributors, <https://jquery.org/>

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.

RequireJS

<http://github.com/jrburke/requirejs>

Copyright jQuery Foundation and other contributors, <https://jquery.org/>

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.

Knockout JavaScript library

Copyright (c) 2010 Steven Sanderson, the Knockout.js team, and other contributors

<http://knockoutjs.com/>

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.

Preact

The MIT License (MIT)

Copyright (c) 2015-present Jason Miller

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.

=====  
===== Apache-2.0 =====

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")

You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>. A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License. Apache License

## Python License

### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

## B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

=====

Python software and documentation are licensed under the Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in the documentation are dual licensed under the PSF License Version 2 and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses. The licenses are listed with code falling under that license.

### PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

-----

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 License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023 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.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

-----

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using

this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

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

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

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

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at <http://www.pythonlabs.com/logos.html> may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

## CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

-----

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI 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 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: <http://hdl.handle.net/1895.22/1013>".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 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 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, 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. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

## CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

-----

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,  
The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION

-----

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.