

**Oracle® Communications
Diameter Signaling Router 5.x**

Licensing Information User Manual

Second Edition

October 2014

E58277-01

Copyright © 2011, 2014 Oracle and/or its affiliates. All rights reserved.

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

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 decompilation of this software, unless required by law for interoperability, is prohibited.

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.

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.

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.

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.

Oracle Communications Diameter Signaling Router – Licensing Notes – Go Forward

Product	Subproduct	Licensing Description
Oracle Communications Diameter Signaling Router	Oracle Communications Diameter Signaling Router (Base Fee) – per server metric	<p>This license (available on a per server basis) provides access to base Diameter Signaling Router functionality including:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Note: This license is a pre-requisite for all licenses described below.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router – per 100 Network-wide Messages per Second Metric	<p>Description: Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in MPS increments that match MPS capacity licenses.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router base license</p>
	Oracle Communications Diameter Signaling Router Roaming Proxy - per Server Metric	<p>Description: This license (available on a per server basis) adds roaming proxy features to the base license above. The following features are available with this license:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router base license.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Full Address Resolution – per Server Metric	<p>Description: This license (available on a per server basis) adds full address resolution features to the base license above. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are available with this license:</p> <p>Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <ul style="list-style-type: none"> • IMS HSS Address Resolution • LTE HSS Address Resolution <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router base license. This license requires additional hardware for the subscriber database server and database processor functions.</p>
	Oracle Communications Diameter Signaling Router Full Address Resolution – per 25k Subscriber Metric	<p>Description: This license determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a network-wide basis. Each entry (entity) in the provisioned subscriber (SDS) database server (SDS) counts as one subscriber. Orderable in subscriber increments that match subscriber capacity licenses.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router Full Address Resolution – per server metric license.</p>
	Oracle Communications Diameter Signaling Router Policy Proxy – per Server Metric	<p>Description: This license (available on a per server basis) adds policy proxy features to the base license above to enable a Policy DRA function on the Diameter Signaling Router. The Policy DRA enables dynamic routing of subscriber sessions to PCRFs. Policy DRA supports the following capabilities:</p> <ul style="list-style-type: none"> • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router base license. This license requires additional hardware for the session/subscriber binding repository.</p>

Product	Subproduct	Licensing Description
	Oracle Communications Diameter Signaling Router Policy Proxy – per 5K Network-wide Concurrent Sessions	<p>Description: This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy. Licensing for concurrent sessions is provided on a network-wide basis.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in session increments that match session capacity licenses.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router Policy Proxy – per server metric license.</p>
	Oracle Communications Diameter Signaling Router Off-Line Charging Server (OFCS) Proxy Base – per Server Metric	<p>Description: This license (available on a per server basis) adds off-line charging server proxy features to the base license above. The off-line charging proxy supports a Diameter proxy agent over the Rf interface between multiple Charging Trigger Function (CTF) clients such as PGWs, SGWs, GGSNs, CSFCs, and multiple Charging Data Function (CDF) servers. The following features are available with this license:</p> <ul style="list-style-type: none"> • Session/Subscriber Binding Repository • Charging Topology Hiding <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router base license. This license requires additional hardware for the session/subscriber binding repository.</p>
	Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy – per 5K Network-wide Concurrent Sessions Metric	<p>Description: This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for off-line charging server (OFCS) proxy. Licensing for concurrent sessions is provided on a network-wide basis.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in session increments that match session capacity licenses.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router Off-Line Charging Server Proxy – per server metric license.</p>

Oracle Communications Diameter Signaling Router – Licensing Notes – Legacy

Product	Subproduct	Licensing Description
Oracle Communications Diameter Signaling Router	Diameter Signaling Router – Messages Per Second Per Node Metric <ul style="list-style-type: none"> - 0 to 100 MPS per Node - 101 to 200 MPS per Node - 201 to 300 MPS per Node - 301 to 400 MPS per Node - 401 to 500 MPS per Node - 501 to 1000 MPS per Node - 1001 to 1500 MPS per Node - 1501 to 2000 MPS per Node - 2001 to 2501 MPS per Node - 2501 to 3000 MPS per Node - 3001 to 3500 MPS per Node - 3501 to 4000 MPS per Node - 4001 to 4500 MPS per Node - 4501 to 5000 MPS per Node - 5K to 6K MPS per Node - 6K to 7K MPS per Node - 7K to 8K MPS per Node - 8K to 9K MPS per Node - 9K to 10K MPS per Node - 10K to 15K MPS per Node - 15K to 20K MPS per Node - 20K to 25K MPS per Node - 25K to 30K MPS per Node - 30K to 35K MPS per Node - 35K to 40K MPS per Node 	<p>Determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy <p>Nodal MPS is calculated as the peak 5-minute interval of the signaling node. A node is defined as a network element that is managed by a single system operations, alarms and measurements server pair.</p> <p>Orderable in MPS increments that match MPS capacity license description.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	- 40K to 45K MPS per Node	
	- 45K to 50K MPS per Node	
	- 50K to 55K MPS per Node	
	- 55K to 60K MPS per Node	
	- 60K TO 65K MPS per Node	
	- 65K TO 70K MPS per Node	
	- 70K TO 75K MPS per Node	
	- 75K TO 80K MPS per Node	
	- 80K TO 85K MPS per Node	
	- 85K TO 90K MPS per Node	
	- 90K TO 95K MPS per Node	
	- 95K TO 100K MPS per Node	
	- 100K TO 105K MPS per Node	
	- 105K TO 110K MPS per Node	
	- 110K TO 115K MPS per Node	
	- 115K TO 120K MPS per Node	
	- 120K TO 125K MPS per Node	
	- 125K TO 130K MPS per Node	
	- 130K TO 135K MPS per Node	
	- 135K TO 140K MPS per Node	

Product	Subproduct	Licensing Description
	- 140K TO 145K MPS per Node	
	- 145K TO 150K MPS per Node	
	- 150K TO 155K MPS per Node	
	- 155K TO 160K MPS per Node	
	- 160K TO 165K MPS per Node	
	- 165K TO 170K MPS per Node	
	- 170K TO 175K MPS per Node	
	- 175K TO 180K MPS per Node	
	- 180K TO 185K MPS per Node	
	- 185K TO 190K MPS per Node	
	- 190K TO 195K MPS per Node	
	- 195K TO 200K MPS per Node	
	- 200K TO 205K MPS per Node	
	- 205K TO 210K MPS per Node	
	- 210K TO 215K MPS per Node	
	- 215K TO 220K MPS per Node	
	- 220K TO 225K MPS per Node	
	- 225K TO 230K MPS per Node	
	- 230K to 235K MPS per Node	
	- 235K to 240K MPS per Node	
	- 240K TO 245K MPS per Node	
	- 245K TO 250K MPS per Node	
	- 250K TO 255K MPS per Node	
	- 255K TO 260K MPS per Node	
	- 260K TO 265K MPS per Node	
	- 265K TO 270K MPS per Node	
	- 275K TO 280K MPS per Node	
	- 270K TO 275K MPS per Node	
	- 280K TO 285K MPS per Node	
	- 285K TO 290K MPS per Node	

Product	Subproduct	Licensing Description
	- 290K TO 295K MPS per Node	
	- 295K TO 300K MPS per Node	
	- 300K TO 305K MPS per Node	
	- 305K TO 310K MPS per Node	
	- 310K TO 315K MPS per Node	
	- 315K TO 320K MPS per Node	
	- 320K TO 325K MPS per Node	
	- 325K TO 330K MPS per Node	
	- 330K TO 335K MPS per Node	
	- 335K TO 340K MPS per Node	
	- 340K TO 345K MPS per Node	
	- 345K TO 350K MPS per Node	
	- 350K TO 355K MPS per Node	
	- 355K TO 360K MPS per Node	
	- 360K TO 365K MPS per Node	
	- 365K TO 370K MPS per Node	
	- 370K TO 375K MPS per Node	
	- 375K TO 380K MPS per Node	
	- 380K to 385K MPS per Node	
	- 385K to 390K MPS per Node	
	- 390K to 400K MPS per Node	
	- 400K to 450K MPS per Node	
	- 450K to 500K MPS per Node	

Product	Subproduct	Licensing Description
	Diameter Signaling Router - IPSEC Messages Per Second Per Node Metric <ul style="list-style-type: none"> - 0 to 100 MPS per Node - 101 to 200 MPS per Node - 201 to 300 MPS per Node - 301 to 400 MPS per Node - 401 to 500 MPS per Node - 501 to 1000 MPS per Node - 1001 to 1500 MPS per Node - 1501 to 2000 MPS per Node - 2001 to 2501 MPS per Node - 2501 to 3000 MPS per Node - 3001 to 3500 MPS per Node - 3501 to 4000 MPS per Node - 4001 to 4500 MPS per Node - 4501 to 5000 MPS per Node - 5K to 6K MPS per Node - 6K to 7K MPS per Node - 7K to 8K MPS per Node - 8K to 9K MPS per Node - 9K to 10K MPS per Node - 10K to 15K MPS per Node - 15K to 20K MPS per Node - 20K to 25K MPS per Node - 25K to 30K MPS per Node - 30K to 35K MPS per Node - 35K to 40K MPS per Node 	Determines the maximum number of nodal Messages per Second (MPS) using IPSec encryption allowed by Oracle Communications Diameter Signaling Router. Orderable in MPS increments that match IPSec MPS capacity license description. Prerequisites: Diameter Signaling Router – Messages Per Second Per Node Metric Restrictions: This license is for legacy customer applications only.

Product	Subproduct	Licensing Description
	<ul style="list-style-type: none"> - 40K to 45K MPS per Node - 45K to 50K MPS per Node - 50K to 55K MPS per Node - 55K TO 60K MPS per Node - 	

Product	Subproduct	Licensing Description
	Diameter Signaling Router - Connections per Node Metric - 0 to 10 - 11 to 50 - 51 to 100 - 101 to 150 - 151 to 200 - 201 to 250 - 251 to 300 - 301 to 350 - 351 to 400 - 401 to 450 - 451 to 500 - 501 to 600 - 601 to 700 - 701 to 800 - 801 to 900 - 901 to 1000 - 1001 to 1100 - 1101 to 1200 - 1201 to 1300 - 1301 to 1400 - 1401 to 1500 - 1501 to 1600 - 1601 to 1700 - 1701 to 1800 - 1801 to 1900 - 1901 to 2000 - 2001 to 2100 - 2201 to 2200 - 2201 to 2300 - 2301 to 2400 - 2401 to 2500 - 2501 to 2600 - 2601 to 2700 - 2701 to 2800 - 2801 to 2900 - 2901 to 3000 - 3001 to 3250 - 3251 to 3500 - 3501 to 3750 - 3751 to 4000 - 4001 to 4250 - 4251 to 4500 - 4501 to 4750 - 4751 to 5000 - 5001 to 5500 - 5501 to 6000 - 6001 to 6500 - 6501 to 7000 - 7001 to 7500 - 7501 to 8000 -	Determines the number of connections allowed by Oracle Communications Diameter Signaling Router. A connection is defined as an SCTP association or a TCP/IP connection. Orderable in increments that match license description. Restrictions: This license is for legacy customer applications only.

Product	Subproduct	Licensing Description
	<ul style="list-style-type: none"> - 8001 to 8500 - 8501 to 9000 - 9001 to 9500 - 9500 to 10K 	
	Diameter Signaling Router Additional Routing Package 1 – per node metric	<p>This license enables the capability of the Oracle Communications Diameter Signaling Router to route based on Command Code and Origin Realm.</p> <p>Prerequisites: Diameter Signaling Router - Routing Entries Metric</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Diameter Signaling Router - Routing Entries per node Metric <ul style="list-style-type: none"> - Up to 100 Entries - 101 to 200 - 201 to 300 - 301 to 400 - 401 to 500 - 501 to 1000 	<p>Determines the number of routing entries allowed by Oracle Communications Diameter Signaling Router.</p> <p>A routing entry is defined as an entry in the DSR routing table.</p> <p>Orderable in increments that match license description.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	NPA Splits - Per Node Metric	<p>This license enables the Oracle Communications Diameter Signaling Router Subscriber Database Server to automatically create temporary duplicate MSISDN records during Numbering Plan Area (NPA) split process.</p> <p>Restrictions: This license applies to North American operators only. This license is for legacy customer applications only.</p>
	LTE Address Resolution – per Node Metric	<p>This license adds full address resolution features to the Oracle Communications Diameter Signaling Router for the LTE HSS. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are available with this license:</p> <p>Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	IMS Address Resolution – per Node Metric	<p>This license adds full address resolution features to the Oracle Communications Diameter Signaling Router for the IMSHSS. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are available with this license:</p> <p>Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	IMS Range Address Resolution – per Node Metric	<p>This license adds range based address resolution features to the Oracle Communications Diameter Signaling Router for IMS.</p> <p>The following features are available with this license:</p> <ul style="list-style-type: none"> • Routing based on appl-id, Command Code, Routing Entity Type and Routing Entity address ranges • Routing Entity types can be a user identity (IMSI, MSISDN, IMPI or IMPU) or an IP address • Allows definition of a prioritized (primary and secondary) Routing Entity type and associated range for each app-ID/Command Code combination. <p>Restrictions: This license is for legacy customer applications only.</p>
	LTE Range Address Resolution – per Node Metric	<p>This license adds range based address resolution features to the Oracle Communications Diameter Signaling Router for LTE.</p> <p>The following features are available with this license:</p> <ul style="list-style-type: none"> • Routing based on appl-id, Command Code, Routing Entity Type and Routing Entity address ranges • Routing Entity types can be a user identity (IMSI, MSISDN, IMPI or IMPU) or an IP address • Allows definition of a prioritized (primary and secondary) Routing Entity type and associated range for each app-ID/Command Code combination. <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	SLF – per Node Metric	<p>This license adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are available with this license:</p> <p>Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. Database Processor – Provides real-time access to the subscriber database at the signaling node.</p> <ul style="list-style-type: none"> • IMS HSS Address Resolution • LTE HSS Address Resolution <p>Restrictions: This license is for legacy customer applications only.</p>
	Diameter Signaling Router – Subscribers per Node Metric <ul style="list-style-type: none"> - Up to 1M Subscribers - 1M to 2M - 2M to 3M - 3M to 4M - 4M to 5M - 5M to 10M - 10M to 15M - 15m to 20M - 20M to 25M - 25M to 30M - 30M to 35M - 35M to 40M - 40M to 45M - 45M to 50M 	<p>This license determines the number of subscribers or entities allowed by Oracle Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a node basis. Each entry (entity) in the provisioned subscriber (SDS) database server (SDS) counts as one subscriber. Orderable in subscriber increments that match subscriber capacity licenses.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router IMS or LTE Full Address Resolution or SLF license</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Subscriber Database Server Software Kernel – per Node Metric	<p>This license enables the Oracle Communications Diameter Signaling Router Subscriber Database Server which is used for IMS or LTE Full Address Resolution or SLF.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Subscriber Database Server Query Server – per Node Metric	<p>This license enables the Oracle Communications Diameter Signaling Router Subscriber Database Server for an offline version of the address resolution database on a query server. This function is used for IMS or LTE Full Address Resolution or SLF.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Message Throttling – per Node Metric	<p>This license enables message throttling features in the Oracle Communications Diameter Signaling Router. The following features are available with this license:</p> <ul style="list-style-type: none"> • Per-connection Ingress MPS control • Per-connection Egress Message throttling • Remote BUSY congestion control • Remote Transport congestion control <p>Restrictions: This license is for legacy customer applications only.</p>
	Diameter Signaling Router Mediation Rules - Per Node Metric <ul style="list-style-type: none"> - Up to 5 Rules per Node - 6 to 10 - 11 to 20 - 21 to 30 - 31 to 40 	<p>This license adds Diameter Mediation to the Oracle Communications Diameter Signaling Router. Diameter Mediation is a GUI-based Diameter mediation framework used to build mediation rules to resolve inter-operability issues. For the purpose of this license, a mediation rule is defined as a rules template which contains multiple conditions and actions associated with the mediation function. Orderable in increments that match license description.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	OFCS Topology Hiding - Per Node Metric	<p>This license adds Off-Line Charging topology hiding to the Oracle Communications Diameter Signaling Router. This feature provides topology hiding to and from Charging Trigger Functions and Charging Data Functions.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	<p>Diameter Signaling Router Concurrent Sessions – per Node Metric</p> <ul style="list-style-type: none"> - Up to 250K Concurrent Sessions - 250K to 500K - 500K to 750K - 750K to 1M - 1M to 1.25M - 1.25M to 1.5M - 1.5M to 1.75M - 1.75M to 2M - 2M to 3M - 3M to 4M - 4M to 5M - 5M to 10M - 10M to 15M - 15M to 20M - 20M to 25M - 25M to 30M - 30M to 35M - 35M to 70M 	<p>This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy or off-line charging proxy. Licensing for concurrent sessions is provided on a per node basis.</p> <p>Nodal concurrent sessions are calculated as the peak 5-minute interval of the signaling node managed by a single system operations, administration and maintenance server pair.</p> <p>Orderable in session increments that match session capacity licenses.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	<p>Diameter Signaling Router IPFE in Gigabits Per Second Blocks – per Node Metric</p> <ul style="list-style-type: none"> - Up to 0.5 GB/S - .5 to 1.0 - 1.0 to 1.5 - 1.5 to 2.0 - 2.0 to 2.5 - 2.5 to 3.0 - 3.0 to 3.5 - 3.5 to 4.0 - 4.0 to 4.5 - 4.5 to 5.0 	<p>This license determines the bandwidth of the IP Front End allowed by Oracle Communications Diameter Signaling Router.</p> <p>Orderable in bandwidth increments that match capacity licenses.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	<p>Policy Topology Hiding - Per Node Metric</p>	<p>This license adds policy topology hiding to the Oracle Communications Diameter Signaling Router. This feature performs topology hiding to hide the identities of the PCRFs from other elements in the network.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router Policy DRA license.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Remote Congestion Control - Per Node Metric	<p>This license enables remote congestion control features in the Oracle Communications Diameter Signaling Router. The following features are available with this license:</p> <ul style="list-style-type: none"> • Remote BUSY congestion control • Remote Transport congestion control <p>Restrictions: This license is for legacy customer applications only.</p>
	Diameter Signaling Router Per Connection TPS Controls - Per Node Metric	<p>This license enables per connection message control features in the Oracle Communications Diameter Signaling Router. The following features are available with this license:</p> <ul style="list-style-type: none"> • Per-connection Ingress MPS control • Per-connection Egress Message throttling <p>Restrictions: This license is for legacy customer applications only.</p>
	Policy DRA - Per Node Metric	<p>This license adds policy proxy features to the Oracle Communications Diameter Signaling Router. The Policy DRA enables dynamic routing of subscriber sessions to PCRFs. Policy DRA supports the following capabilities:</p> <ul style="list-style-type: none"> • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding <p>Restrictions: This license is for legacy customer applications only.</p>
	Policy Correlation - Per Node Metric	<p>This license adds policy proxy correlation to the Oracle Communications Diameter Signaling Router. Policy correlation provides session correlation across interfaces, such as Gx and Rx, and across mated DSR pairs.</p> <p>Prerequisites: This license requires the Oracle Communications Diameter Signaling Router Policy DRA license.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router 5K MPS - Per Network Metric	<p>Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in MPS increments that match MPS capacity licenses.</p> <p>Restrictions:</p> <p>This license is for specific legacy customer applications only.</p>
	Diameter Signaling Router 5M Concurrent Sessions - Per Network Metric - 5M Sessions per Network	<p>This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy. Licensing for concurrent sessions is provided on a per network-wide basis.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in session increments that match session capacity licenses.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router Concurrent Sessions Per Network Per 5M Session Blocks Metric <ul style="list-style-type: none"> - Up to 15M per Network - 15M to 100M - 100M to 250M - 250M to 500M 	<p>This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy. Licensing for concurrent sessions is provided on a per network-wide basis.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in session increments that match session capacity licenses.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Subscriber Database Server XML to PDBI Conversion - Per Network Metric	<p>This license adds an XML to PDBI conversion capability to the Oracle Communications Diameter Signaling Router Subscriber Database Server. This interface conversion allows for interoperability between the Subscriber Database Server and legacy PDBI network elements.</p> <p>Prerequisites: This license requires the Subscriber Database Server software kernel license.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router MPS Per 100K Block Per Network Metric <ul style="list-style-type: none"> - Up to 300K - 300K to 2M - 2M to 5M - 5M to 10M 	<p>Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in MPS increments that match MPS capacity licenses.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router Core Routing - Per Blade Metric <ul style="list-style-type: none"> - Up to 50 Blades - 50 to 100 - 100 to 250 - 250 to 500 - 500 to 10,000 	<p>This license (available on a per server basis) provides access to base Diameter Signaling Router functionality including:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Orderable in blade increments that match licenses.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router Policy Proxy - Per Blade Metric <ul style="list-style-type: none"> - Up to 50 Blades - 50 to 100 - 100 to 250 - 250 to 500 - 500 to 10,000 	<p>This license (available on a per server basis) adds policy proxy features to the base license above to enable a Policy DRA function on the Diameter Signaling Router. The Policy DRA enables dynamic routing of subscriber sessions to PCRFs.</p> <p>Policy DRA supports the following capabilities:</p> <ul style="list-style-type: none"> • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. <p>Orderable in blade increments that match licenses.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>
	Diameter MPS - Per Network Metric	<p>Determines the maximum number of network-wide Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router. An MPS is defined as:</p> <ol style="list-style-type: none"> 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy <p>Network-wide MPS is calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in single MPS increments.</p> <p>Prerequisites:</p> <p>This license requires the Oracle Communications Diameter Signaling Router Core Routing per server license.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Policy Concurrent Sessions - Per Network Metric	<p>This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for policy proxy. Licensing for concurrent sessions is provided on a network-wide basis.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in single session increments.</p> <p>Prerequisites: This license requires the legacy Oracle Communications Diameter Signaling Router Policy Proxy per server metric license.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Charging Concurrent Sessions - Per Network Metric	<p>This license determines the number of concurrent Diameter sessions allowed by Oracle Communications Diameter Signaling Router for off-line charging server (OFCS) proxy. Licensing for concurrent sessions is provided on a network-wide basis.</p> <p>Network-wide concurrent sessions are calculated as the peak 5-minute interval of the sum of all signaling nodes managed by a single network operations, administration and maintenance node.</p> <p>Orderable in single session increments.</p> <p>Prerequisites: This license requires the legacy Oracle Communications Diameter Signaling Router Charging Proxy OFCS per server metric license.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Subscribers - Per Network Metric	<p>This license determines the number of subscribers or entities allowed by Oracle Communications Diameter Signaling Router for full address resolution. Licensing for Subscribers is provided on a network-wide basis. Each entry (entity) in the provisioned subscriber (SDS) database server (SDS) counts as one subscriber.</p> <p>Orderable in single subscriber increments.</p> <p>Prerequisites: This license requires the legacy Oracle Communications Diameter Signaling Router Address Resolution per server metric license.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Core Routing Per - Server Metric	<p>This license (available on a per server basis) provides the core routing functionality of the Oracle Communications Diameter Signaling Router functionality including:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>
	Policy Proxy - Per Server Metric	<p>This license (available on a per server basis) adds policy proxy features to the Oracle Communications Diameter Signaling Router. The Policy Proxy license enables dynamic routing of subscriber sessions to PCRFs.</p> <p>Policy Proxy supports the following capabilities:</p> <ul style="list-style-type: none"> • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Charging Proxy OFCS - Per Server Metric	<p>This license (available on a per server basis) adds off-line charging server proxy features to the Oracle Communications Diameter Signaling Router. The off-line charging proxy supports a Diameter proxy agent over the Rf interface between multiple Charging Trigger Function (CTF) clients such as PGWs, SGWs, GGSNs, CSFCs, and multiple Charging Data Function (CDF) servers. The following features are available with this license:</p> <ul style="list-style-type: none"> • Session/Subscriber Binding Repository • Charging Topology Hiding <p>Restrictions: This license is for legacy customer applications only.</p>
	Address Resolution Proxy - Per Server Metric	<p>This license (available on a per server basis) adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are available with this license:</p> <ul style="list-style-type: none"> • Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. • Database Processor – Provides real-time access to the subscriber database at the signaling node. • IMS HSS Address Resolution • LTE HSS Address Resolution <p>Restrictions: This license is for legacy customer applications only.</p>
	Roaming Proxy - Per Server Metric	<p>This license (available on a per server basis) adds roaming proxy features to the base license above. The following features are available with this license:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Software Per lab – per Node Metric	<p>This license provides access to all functionality in the Oracle Communications Diameter Signaling Router for non-production lab or test environments.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	-	
	Diameter MPS - Per Node Metric	<p>This license includes base functionality and determines the maximum number of nodal Messages per Second (MPS) allowed by Oracle Communications Diameter Signaling Router.</p> <p>The base functionality consists of:</p> <ul style="list-style-type: none"> • Connections • Routes • Additional routing package • IPSec MPS • Diameter Mediation rules • Message copy • Message throttling • Remote Congestion control • LTE and IMS Range based address resolution • Per connection TPS controls <p>An MPS is defined as:</p> <ol style="list-style-type: none"> 1. Processing of an ingress Diameter message and either transmitting a single outgoing message or discarding the ingress message. The outgoing message may be a variant of, or a response to, the ingress message. 2. Transmission of any Diameter message that is associated with incremental actions/events associated with #1 above. For example, the re-routing of a Request upon connection failure or the copying of a Request. <p>Messages excluded from this measure are:</p> <ul style="list-style-type: none"> • Diameter peer-to-peer messages: CER/CEA, DWR/DWA, and DPR/DPA • Ingress Diameter messages discarded by the DSR due to Overload controls • Answers received in response to Message Copy <p>Nodal MPS is calculated as the peak 5-minute interval of the signaling node. A node is defined as a network element that is managed by a single system operations, alarms and measurements server pair.</p> <p>Orderable in single MPS increments.</p> <p>Restrictions: This license is for specific legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router Initial Content Per Server	<p>This license (available on a per server basis) provides access to base Diameter Signaling Router functionality including:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPsec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.</p> <p>IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router 5 Initial Content Per Server	<p>This license (available on a per server basis) provides access to base Diameter Signaling Router functionality including:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router 5 Content Bundle Per Server	<p>This license, available on a per server basis, adds the following functionality to the Oracle Communications Diameter Signaling Router:</p> <ul style="list-style-type: none"> • HSS Topology Hiding • MME Topology Hiding • Diameter Message Copy • Increased Database Processor query capacity • Multi-homed IPFE for SCTP • Maximum message size of 30k bytes • Egress throttle group rate limiting • Message priority-based overload control • Ingress message coloring • SDS subscriber identity grouping • Blacklist support • Route group entries up to 160 <p>Prerequisites:</p> <p>This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Diameter Signaling Router 4 RMS Initial Content Per Server	<p>This license (available on a per rack mount server basis) provides access to base Diameter Signaling Router functionality including:</p> <p>OAM – Operations, administration, measurements functionality including SNMP, event logs, security logs, configuration, topology, user/group management and reports.</p> <p>Core Routing – Core routing and processing functionality that provides application specific handling of real-time Diameter messages.</p> <p>Congestion Management – Ingress and egress, local and remote Diameter congestion control.</p> <p>Connection Management – TCP, SCTP uni- and multi-homing, IPv4-IPv6 interworking, IPSec, load balancing and capabilities exchange.</p> <p>Diameter Mediation – GUI-based Diameter mediation framework used to build mediation rules to resolve interoperability issues.</p> <p>Range Based Address Resolution – Stateless diameter proxy routing application that routes Diameter end-to-end transactions based on application ID, command code, routing entity type and routing entity address ranges.</p> <p>Message Copy – Ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>IP Front End –TCP/SCTP connection based ingress load balancing which enables Diameter clients to access multiple Diameter Signaling Router servers via one or more virtual IP addresses.</p> <p>Geo-redundant – The Diameter Signaling Router can be deployed with or without geo-redundancy.</p> <p>High Availability – All message processing critical components are engineered with high levels of redundancy to ensure high availability.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Policy Proxy I Per Server	<p>This license (available on a per server basis) adds policy proxy features to the base license above to enable a Policy DRA function on the Diameter Signaling Router. The Policy DRA enables dynamic routing of subscriber sessions to PCRFs.</p> <p>Policy DRA supports the following capabilities:</p> <ul style="list-style-type: none"> • Distributes Gx/Gxx/S9/Rx sessions across PCRFs • Provides network-wide subscriber session binding • Provides session correlation across mated pairs • Performs topology hiding to hide the identities of the PCRFs from other elements in the network. <p>Prerequisites:</p> <p>This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>
	OFCS Proxy I Per Server	<p>This license (available on a per server basis) adds off-line charging server proxy features to the Oracle Communications Diameter Signaling Router. The off-line charging proxy supports a Diameter proxy agent over the Rf interface between multiple Charging Trigger Function (CTF) clients such as PGWs, SGWs, GGSNs, CSFCs, and multiple Charging Data Function (CDF) servers. The following features are available with this license:</p> <ul style="list-style-type: none"> • Session/Subscriber Binding Repository • Charging Topology Hiding <p>Prerequisites:</p> <p>This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions:</p> <p>This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Full Address Resolution I Per Server	<p>This license (available on a per server basis) adds full address resolution features to the Oracle Communications Diameter Signaling Router. Full address resolution is an enhanced proxy routing application that routes end-to-end Diameter transactions based on app-id, Command Code, Routing Entity type and Individual Routing Entity. The following features are available with this license:</p> <ul style="list-style-type: none"> • Subscriber Database Server – Provides provisioning and storage of large amounts of database information for full address resolution. Supports querying, reports and audits. • Database Processor – Provides real-time access to the subscriber database at the signaling node. • IMS HSS Address Resolution • LTE HSS Address Resolution <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Message Copying Per Node	<p>This license adds message copy capability to the Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	HSS Topology Hiding Per Node	<p>This license adds HSS Topology Hiding to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	MME Topology Hiding Per Node	<p>This license adds MME Topology Hiding to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Path Topology Hiding Per Node	<p>This license adds Path Topology Hiding to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Blacklisting Per Node	<p>This license adds Blacklisting support to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	User Configuration Message Priority Per Node	<p>This license adds user configurable message priority to the Oracle Communications Diameter Signaling Router.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Message Copy Per Server	<p>This license adds message copy capability to the Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	RMS Message Copy Per Server	<p>This license adds message copy capability to the rack-mount Oracle Communications Diameter Signaling Router. Message Copy is the ability to copy certain Diameter Requests or Requests and Answers that transit the Diameter Signaling Router.</p> <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	IPFE II Per Server	<p>This license adds IPFE features to the Oracle Communications Diameter Signaling Router. The IPFE features added by this license are:</p> <ul style="list-style-type: none"> • SCTP Multi-Homing for IPFE • Enhanced load balancing <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	RMS IPFE II Per Server	<p>This license adds IPFE features to the rack-mount Oracle Communications Diameter Signaling Router. The IPFE features added by this license are:</p> <ul style="list-style-type: none"> • SCTP Multi-Homing for IPFE • Enhanced load balancing <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Core Routing III Per Server	<p>This license adds core routing features to the Oracle Communications Diameter Signaling Router. The core routing features added by this license are:</p> <ul style="list-style-type: none"> • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	RMS Core Routing III Per Server	<p>This license adds core routing features to the rack-mount Oracle Communications Diameter Signaling Router. The core routing features added by this license are:</p> <ul style="list-style-type: none"> • Maximum message size of 30k bytes • Route group entries up to 160 • Enhanced pending answer timer configurations <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	Roaming Proxy Topology Hiding I Per Server	<p>This license adds roaming proxy features to the Oracle Communications Diameter Signaling Router. The following features are available with this license:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>
	RMS Roaming Proxy Topology Hiding I Per Server	<p>This license adds roaming proxy features to the rack-mount Oracle Communications Diameter Signaling Router. The following features are available with this license:</p> <ul style="list-style-type: none"> • MME Topology Hiding • HSS Topology Hiding • Path Topology Hiding <p>Prerequisites: This license requires the Diameter Signaling Router Initial Content per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Product	Subproduct	Licensing Description
	Full Address Resolution II Per Server	<p>This license adds full address resolution features to the Oracle Communications Diameter Signaling Router Full Address Resolution I license. The full address resolution features added by this license are:</p> <ul style="list-style-type: none"> • Blacklisting support • Ability to activate range and full address resolution on the same message <p>Prerequisites: This license requires the Diameter Signaling Router Full Address Resolution I per server.</p> <p>Restrictions: This license is for legacy customer applications only.</p>

Third-Party Commercial and Open Source Software

Commercial Software

Commercial software used in Oracle Communications Diameter Signaling Router is identified in the following table with the following license notes, restrictions, and disclaimers.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description/Disclaimer
Not Applicable			

Open Source Disclosure

Open Source Disclosure

Open source software used in Oracle Communications Diameter Signaling Router is identified in the following table with the following license notes, restrictions, and disclaimers. Additional open source software notices and licenses may be found in the Documentation or readme files of the products making up the individual components.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Red Hat	chkconfig v. 1.3.49.3	A system tool for maintaining the /etc/rc*.d hierarchy	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

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	rhpl v. 0.221	Library of Python code used by installation and configuration tools	<p>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Red Hat</p> <p>The chkconfig v. 1.3.49.3 and rhpl v. 0.221 software and sample code developed by Red Hat is licensed under the General Public License 2.0.</p>
Jason T. Collins	ctcs v. 1.3.0	VA Cerberus Test Control System	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Jason T. Collins <jcollins@valinux.com> for VA Linux Systems</p> <p>The ctcs v. 1.3.0 software and sample code developed by Jason T Collins is licensed under the General Public License 2.0.</p>
Philipp Reisner/ Lars Ellenberg	drbd v. 8.3.11	DRBD driver for Linux	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Philipp Reisner philipp.reisner@linbit.com & Lars Ellenberg lars.ellenberg@linbit.com</p> <p>The drbd v.8.3.11 software and sample code developed by Philipp Reisner/ Lars Ellenberg is licensed under the General Public License 2.0.</p>
Theodore Ts'o	e2fsprogs-libs v. 1.39	Utilities for managing ext2, ext3, and ext4 filesystems	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Theodore Ts'o</p> <p>The e2fsprogs-libs v. 1.39 software and sample code developed by Theodore Ts'o is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Philip A. Nelson ,Jason Downs, Sergey Poznyakoff	gdbm v. 1.8.0	A GNU set of database routines which use extensible hashing	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Philip A. Nelson, Jason Downs, Sergey Poznyakoff</p> <p>The gdbm v. 1.8.0 software and sample code developed by Philip A. Nelson ,Jason Downs, Sergey Poznyakoff is licensed under the General Public License 2.0.</p>
Server Engines Corporation	hp-be2iscsi v. 4.2.263.0	HP NC-Series Emulex 10GbE iSCSI Driver for Linux	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © ServerEngines Corporation</p> <p>The hp-be2iscsi v. 4.2.263.0 software and sample code developed by Server Engines Corporation is licensed under the General Public License 2.0.</p>
Emulex Corporation	hp-be2net v. 4.1.450.7	HP NC-Series Emulex 10GbE Driver for Linux	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Emulex Corporation</p> <p>The hp-be2net v. 4.1.450.7 software and sample code developed by Emulex Corporation is licensed under the General Public License 2.0.</p>
Intel Corporation	hp-e1000 v. 8.0.25	HP NC Series Intel e1000 Driver for Linux	<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>GPL 2.0 - See APPENDIX A</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	hp-igb v. 3.4.7.1	HP NC Series Intel e1000 Driver for Linux	Copyright © Intel Corporation The hp-e1000 v. 8.0.25 and hp-igb v. 3.4.7.1 software and sample code developed by Intel Corporation is licensed under the General Public License 2.0.
Rusty Russell	iptables v. 1.4.7	Tools for managing Linux kernel packet filtering capabilities	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 GPL 2.0 - See APPENDIX A Copyright © Rusty Russell The iptables v. 1.4.7 software and sample code developed by Rusty Russell is licensed under the General Public License 2.0.
Broadcom Corporation	hp-netxtreme2 v. 7.6.62	HP NC-Series Broadcom 1/10 GbE Multifunction Drivers for Linux	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 GPL 2.0 - See APPENDIX A
	hp-netxtreme2-iscsi v. 7.6.62	HP NC-Series Broadcom iSCSI Driver for Linux	Copyright © Broadcom Corporation The hp-netxtreme2 v. 7.6.62, hp-netxtreme2-iscsi v. 7.6.62 and hp-tg3 v. 3.129d software and sample code developed by Broadcom Corporation is licensed under the General Public License 2.0.
	hp-tg3 v. 3.129d	HP NC-Series Broadcom NetXtreme Gigabit Ethernet Driver	
Frodo Looijaard, Mark D. Stuebaker, Jean Delvare	i2c-tools v. 3.0.0	A heterogeneous set of I2C tools for Linux	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 GPL 2.0 - See APPENDIX A Copyright © Frodo Looijaard, Mark D. Stuebaker and Jean Delvare The i2c-tools v. 3.0.0 software and sample code developed by Frodo Looijaard, Mark D. Stuebaker, Jean Delvare is licensed under the General Public License 2.0.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Canonical Ltd	initscripts v. 9.03.31	The inittab file and the /etc/init.d scripts	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Canonical Ltd.</p> <p>The initscripts v. 9.03.31 software and sample code developed by Canonical Ltd is licensed under the General Public License 2.0.</p>
Jon Masters	module-init-tools v. 3.9	Kernel module management utilities.	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Jon Masters jcm@jonmasters.org</p> <p>The module-init-tools v. 3.9 software and sample code developed by Jon Masters is licensed under the General Public License 2.0.</p>
Linus Torvalds	kernel v. 2.6.32	The Linux kernel	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Linus Torvalds</p> <p>The kernel v. 2.6.32 and Linux Kernel v. 2.6.32 software and sample code developed by Linus Torvalds is licensed under the General Public License 2.0.</p>
Frodo Looijaard, Merlin Hughes, Bob Schlaermann, Mark M. Hoffman, Jean Delvare	lm_sensors v. 3.1.1	Hardware monitoring tools	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Frodo Looijaard, Merlin Hughes, Bob Schlaermann, Mark M. Hoffman, Jean Delvare</p> <p>The lm_sensors v. 3.1.1 software and sample code developed by Frodo Looijaard, Merlin Hughes, Bob Schlaermann, Mark M. Hoffman, Jean Delvare is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Igor Pavlov, Ville Koskinen and Lasse Collin	lzma v. 4.32.7	A few scripts which provide gzip-like command line interface and a couple of other LZMA related tools.	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Igor Pavlov, Ville Koskinen and Lasse Collin</p> <p>The lzma v. 4.32.7 software and sample code developed by Igor Pavlov, Ville Koskinen and Lasse Collin is licensed under the General Public License 2.0.</p>
MicroWalt Corporation	net-tools v. 1.6	Basic networking tools	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © 1988-1994 MicroWalt Corporation, Copyright © 1995-1996 Bernd Eckenfels, Copyright © 1997-2000 Andi Kleen, Copyright © 1997-2000 Donald Becker</p> <p>The net-tools v. 1.6 software and sample code developed by MicroWalt Corporation, Bernd Eckenfels, Andi Kleen, Donald Becker is licensed under the General Public License 2.0.</p>
Thomas Boutell	rinetd v. 0.62	TCP redirection server	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Thomas Boutell</p> <p>The rinetd v. 0.62 software and sample code developed by Thomas Boutell is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
QLogic Corporation	qla2xxx v. 8.04.00.06.06.0	QLogic HBA driver in c-Class blade servers	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © QLogic Corporation</p> <p>The qla2xxx v. 8.04.00.06.06.0 software and sample code developed by QLogic Corporation is licensed under the General Public License 2.0.</p>
Erik Troan and Marc Ewing	rpm v. 4.8.0	The RPM package management system	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Erik Troan and Marc Ewing</p> <p>The rpm v. 4.8.0 software and sample code developed by Erik Troan and Marc Ewing is licensed under the General Public License 2.0.</p>
Greg Kroah-Hartman	udev v. 147	A userspace implementation of devfs	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Greg Kroah-Hartman</p> <p>The udev v. 147 software and sample code developed by Greg Kroah-Hartman is licensed under the General Public License 2.0.</p>
Oracle Corporation	MySQL Community Server v. 5.1.66	Relational Database	<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>GPL 2.0 - See APPENDIX A</p> <p>Copyright © Oracle Corporation</p> <p>The MySQL Community Server v. 5.1.66 and MySQL Community Server v. 5.1.69 software and sample code developed by Greg Kroah-Hartman is licensed under the General Public License 2.0.</p>
	MySQL Community Server v. 5.1.69	Relational Database	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Tresys Technology	selinux-policy v. 3.7.19	SELinux policy configuration	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
	setools v. 3.3.7	Policy analysis tools for SELinux	<p>GPL 3.0 - See APPENDIX C</p> <p>Copyright © Tresys Technology</p> <p>The selinux-policy v. 3.7.19 and setools v. 3.3.7 software and sample code developed by Tresys Technology is licensed under the General Public License 2.0.</p>
Eric Sommerlade, Michael Feathers, Jerome Lacoste, Baptiste Lepilleur, Bastiaan Bakker, Steve Robbins	cppunit-1.12.1-3.1.e16	C++ Unit Testing Framework	<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>GPL 3.0 - See APPENDIX C</p> <p>Copyright© Eric Sommerlade, Michael Feathers, Jerome Lacoste, Baptiste Lepilleur, Bastiaan Bakker, Steve Robbins</p> <p>The cppunit-1.12.1-3.1.e16 software and sample code developed by Eric Sommerlade, Michael Feathers, Jerome Lacoste, Baptiste Lepilleur, Bastiaan Bakker, Steve Robbins is licensed under the General Public License 2.0.</p>
gtk2-perl team	Glib v. 1.231	Perl interface to GLib	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © 2003-2005 by the gtk2-perl team</p> <p>The Glib v. 1.231 software and sample code developed by gtk2-perl team is licensed under the General Public License 3.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Colin Walters, Johan Dahlin, Matthias Clasen	gobject-introspection v. 0.10.8	Introspection system for GObject-based libraries	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Colin Walters <walters@verbum.org>, Johan Dahlin <johan@gnome.org>, Matthias Clasen <mclasen@redhat.com> and j@bitron.ch</p> <p>The gobject-introspection v. 0.10.8 software and sample code developed by Colin Walters, Johan Dahlin, Matthias Clasen is licensed under the General Public License 2.1.</p>
Raritan, Inc	kiratool v. 1.5.15	Tools for managing Intel's Remote Management Module (RMM)	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Raritan, Inc.</p> <p>The kiratool v. 1.5.15 software and sample code developed by Raritan, Inc is licensed under the General Public License 2.0.</p>
Daniel Veillard	libvirt v. 0.9.10	Library providing a simple virtualization API	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Daniel Veillard veillard@redhat.com</p> <p>The libvirt v. 0.9.10 software and sample code developed by Daniel Veillard is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
La Monte H. P. Yarroll, IBM Corp., Red Hat	lksctp-tools v. 1.0.11	User-space access to Linux Kernel SCTP	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © 2002 La Monte H. P. Yarroll; Copyright © 2002, 2004 IBM Corp.; Copyright © 2010, 2013 Red Hat</p> <p>The lksctp-tools v. 1.0.11 software and sample code developed by La Monte H. P. Yarroll, IBM Corp., Red Hat is licensed under the General Public License 2.0.</p>
Kevin Atkinson	mysql++ v. 3.0.8	MySQL client programs and shared libraries	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Kevin Atkinson</p> <p>The mysql++ v. 3.0.8 software and sample code developed by Kevin Atkinson is licensed under the General Public License 2.0.</p>
Ryan Eatmon	perl-Net-XMPP v. 1.02_04	Net-XMPP Perl module	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Ryan Eatmon</p> <p>The perl-Net-XMPP v. 1.02_04 software and sample code developed by Ryan Eatmon is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
VMware Guest Components Team	open-vm-tools v. 0.0.0.217847	VMware Guest OS Tools	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © VMware Guest Components Team</p> <p>The open-vm-tools v. 0.0.0.217847 software and sample code developed by VMware Guest Components Team is licensed under the General Public License 2.0.</p>
Emmanuele Bassi, muppet, Torsten Schöfeld	perl-Glib-Object-Introspection v.0.001.20110920git	Glib-Object-Introspection Perl module	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Emmanuele Bassi, muppet, Torsten Schöfeld</p> <p>The perl-Glib-Object-Introspection v.0.001.20110920git software and sample code developed by Emmanuele Bassi, muppet, Torsten Schöfeld is licensed under the General Public License 2.0.</p>
Darian Anthony Patrick, Ryan Eatmon, Thomas Charron, Jeremie	perl-XML-Stream v. 1.23_06	XML-Stream Perl module	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Darian Anthony Patrick, Ryan Eatmon, Thomas Charron, Jeremie</p> <p>The perl-XML-Stream v. 1.23_06 software and sample code developed by Darian Anthony Patrick, Ryan Eatmon, Thomas Charron, Jeremie is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Seznam.cz, a.s., Jan Nemeč	teng v. 2.0.4	Templating Engine	<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 2.1 of the License, or (at your option) any later version</p> <p>GPL 2.1 - See APPENDIX B</p> <p>Copyright © Seznam.cz, a.s., Jan Nemeč</p> <p>The teng v. 2.0.4 software and sample code developed by Seznam.cz, a.s., Jan Nemeč is licensed under the General Public License 2.0.</p>
Mozilla Public License Version 1.1	nss v. 3.13.5	Network Security Services	<p>Licensed under the MPL License v. 1.1, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.mozilla.org/MPL/1.1/</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. See the License for the specific language governing permissions and limitations under the License.</p> <p>Copyright © The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun nss v. 3.13.5 Microsystems, Inc., Massachusetts Institute of Technology, Jean-loup Gailly, Mark Adler, Red Hat, Inc, RSA Security Inc., Netscape Communications Corporation, Michael J. Fromberger</p> <p>The nss v. 3.13.5 software and sample code developed by The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun Microsystems, Inc., Massachusetts Institute of Technology, Jean-loup Gailly, Mark Adler, Red Hat, Inc, RSA Security Inc., Netscape Communications Corporation, Michael J. Fromberger is licensed under the Mozilla Public License Version 1.1</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	nss-softokn v. 3.12.9	Network Security Services Softoken Module	<p>See above</p> <p>MPL v.1.1</p> <p>Copyright © The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun</p> <p>The nss v. 3.13.5 software and sample code developed by The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, Sun Microsystems Inc., Netscape Communications Corporation, Michael J. Fromberger licensed under the Mozilla Public License Version 1.1</p>
	nss-util v. 3.13.5	Network Security Services Utilities Library	<p>See above</p> <p>MPL v.1.1</p> <p>Copyright © The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, RSA Security Inc., Sun Microsystems Inc.</p> <p>The nss v. 3.13.5 software and sample code developed by The Regents of the University of California, The Open Group, Network Computing Devices, Inc., X Consortium, RSA Security Inc., Sun Microsystems Inc. licensed under the Mozilla Public License Version 1.1</p>
Mozilla Public License Version 2.0	nspr v. 4.9.1	Netscape Portable Runtime	<p>Licensed under the MPL License v. 2.0, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.mozilla.org/MPL/2.0/</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. See the License for the specific language governing permissions and limitations under the License.</p> <p>Copyright © Netscape Communications Corporation, Lucent Technologies, Student Information Processing Board of the Massachusetts Institute of nspr v. 4.9.1 Technology, The Regents of the University of California, Digital Equipment Corporation, Internet Systems Consortium, Inc.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Eclipse Foundation	Infocenter-3.4.2-6.0.0_80.8.0.noarc h	Eclipse Standalone Help System	<p>Eclipse Public License - v 1.0</p> <p>THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.</p> <p>1. DEFINITIONS</p> <p>"Contribution" means:</p> <ul style="list-style-type: none"> a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and b) in the case of each subsequent Contributor: <ul style="list-style-type: none"> i) changes to the Program, and ii) additions to the Program; <p>where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.</p> <p>"Contributor" means any person or entity that distributes the Program.</p> <p>"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.</p> <p>"Program" means the Contributions distributed in accordance with this Agreement.</p> <p>"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.</p> <p>2. GRANT OF RIGHTS</p> <ul style="list-style-type: none"> a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form. b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.</p> <p>c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.</p> <p>d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.</p> <p>3. REQUIREMENTS</p> <p>A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:</p> <ul style="list-style-type: none"> a) it complies with the terms and conditions of this Agreement; and b) its license agreement: <ul style="list-style-type: none"> i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose; ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits; iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange. When the Program is made available in source code form: <ul style="list-style-type: none"> a) it must be made available under this Agreement; and b) a copy of this Agreement must be included with each copy of the Program. <p>Contributors may not remove or alter any copyright</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>notices contained within the Program. Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.</p> <p>4. COMMERCIAL DISTRIBUTION</p> <p>Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.</p> <p>For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.</p> <p>5. NO WARRANTY</p> <p>EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED 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</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement , including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.</p> <p>6. DISCLAIMER OF LIABILITY EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), 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 OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.</p> <p>7. GENERAL If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable. If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed. All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive. Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved. This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.</p> <p>http://www.eclipse.org/legal/epl-v10.html</p> <p>Copyright © IBM</p> <p>The Infocenter-3.4.2-6.0.0_80.8.0.noarch software and sample code developed by Eclipse Foundation is licensed under the General Public License 2.0.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Zend Technologies, Ltd.	zend-framework v. 1.11.9	PHP Web Development Framework	<p>Licensed under The Free BSD Project, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.freebsd.org/copyright/freebsd-license.html</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. 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 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>Copyright © Zend Technologies, Ltd.</p> <p>The zend-framework v. 1.11.9 software and sample code developed by Zend Technologies, Ltd.is licensed under the The Free BSD Project.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
memcached.org	memcached-1.2.6-5.0.0_50.1.0.x86_64	Distributed Memory Caching System	See above The Free BSD Project Copyright © memcached.org The memcached-1.2.6-5.0.0_50.1.0.x86_64 software and sample code developed by memcached.org licensed under the The Free BSD Project.
Sebastian Burgmann	PHPUnit-3.4.2-4.2.1-70.68.0	PHP Unit Testing Framework	See above The Free BSD Project Copyright © Sebastian Bergmann, et al(mailto:sebastian@phpunit.de)
	php-channel-phpunit v. 1.0	Adds phpunit channel to PEAR	The PHPUnit-3.4.2-4.2.1-70.68.0 and software and php-channel-phpunit v. 1.0 sample code developed by Sebastian Burgmann licensed under the The Free BSD Project.
Dmitry Zenovich	php-pecl-runkit-1.0.21	Modify constants and user-defined classes and functions	See above The Free BSD Project Copyright © Dmitry Zenovich The php-pecl-runkit-1.0.21 software and sample code developed by Dmitry Zenovich licensed under The Free BSD Project.
Bryan Stansell	conserver v. 8.1.16	Serial console server daemon/client	See above The Free BSD Project Copyright © Bryan Stansell (bryan@conserver.com) The conserver v. 8.1.16 software and sample code developed by Bryan Stansell licensed under The Free BSD Project.
Andy Cress	ipmiutil v. 2.7.6	Provides easy-to-use IPMI server management utilities	See above The Free BSD Project Copyright © Andy Cress <arcress at users.sourceforge.net> The ipmiutil v. 2.7.6 software and sample code developed by Andy Cress licensed under The Free BSD Project.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
IHTFP Consulting and SUSE Linux AG	ipsec-tools v. 0.8.0	IPsec user tools and utilities	See above The Free BSD Project Copyright © IHTFP Consulting and SUSE Linux AG The ipsec-tools v. 0.8.0 software and sample code developed IHTFP Consulting and SUSE Linux AG licensed under The Free BSD Project.
Dug Song	libdnet v. 1.12	Simple portable interface to lowlevel networking routines	See above The Free BSD Project Copyright © Dug Song The libdnet v. 1.12 software and sample code developed by Dug Song licensed under The Free BSD Project.
The PHP Group	php-pear-Auth-SASL v. 1.0.2	PEAR: Abstraction of various SASL mechanism responses	See above The Free BSD Project Copyright © 2001-2013 The PHP Group The Infocenter-3.4.2-6.0.0_80.8.0.noarch, php-pear-MDB2 v. 2.4.1, and php-pear-PHPUnit v. 3.3.2 software and sample code developed by The PHP Group licensed under The Free BSD Project.
	php-pear-MDB2 v. 2.4.1	A merge of the PEAR::DB and Metabase php database abstraction layers	
	php-pear-PHPUnit v. 3.3.2	Regression testing framework for unit tests	
Derick Rethans	php-pecl-xdebug v. 2.1.3	PECL package for debugging PHP scripts	See above The Free BSD Project Copyright © 2003-2012 Derick Rethans The php-pecl-xdebug v. 2.1.3 software and sample code developed by Derick Rethans licensed under The Free BSD Project.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
David A. Holland	routed v. 0.17	The routing daemon which maintains routing tables.	See above The Free BSD Project Copyright © David A. Holland The routed v. 0.17 software and sample code developed by David A. Holland licensed under The Free BSD Project
WIDE Project, Emmanuel Dreyfus, SuSE Linux AG, Nuernberg, Germany, The Regents of the University of California, Todd C. Miller	racoons2-20100526a v. 6.0.0	IPsec IKEv1/IKEv2 Key exchange daemons	See above The Free BSD Project Copyright © 2004, 2005 WIDE Project, Copyright © 2004 Emmanuel Dreyfus, Copyright © 2004 SuSE Linux AG, Nuernberg, Germany, Copyright © 1991, 1993 The Regents of the University of California. All rights reserved. and Copyright © 1998 Todd C. Miller <Todd.Miller@courtesan.com> The racoons2-20100526a v. 6.0.0 software and sample code developed by WIDE Project, Emmanuel Dreyfus, SuSE Linux AG, Nuernberg, Germany, The Regents of the University of California, Todd C. Miller licensed under The Free BSD Project
Derek Martin	rsync v. 2.3.2	A restricted shell for scp or sftp	See above The Free BSD Project Copyright © Derek Martin <rsync-discuss@lists.sourceforge.net > The rsync v. 2.3.2 software and sample code developed by Derek Martin licensed under The Free BSD Project
The FreeBSD Project	unifdef v. 1.171	Unifdef tool for removing ifdef'd lines	See above The Free BSD Project Copyright © 1995-2013 The FreeBSD Project The unifdef v. 1.171 software and sample code developed by The FreeBSD Project licensed under The Free BSD Project

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The Regents of the University of California (Contributed by Cristos Zoulas of Cornell University)	libedit v 2.11	Commandline Editing	<p>See above</p> <p>The Free BSD Project</p> <p>Copyright © memcached.org</p> <p>The libedit v 2.11 software and sample code developed by The Regents of the University of California licensed under The Free BSD Project</p> <p>All rights reserved. This code is derived from software contributed to Berkeley by Christos Zoulas of Cornell University</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The Dojo foundation	dojo-1.4.1-5.0.0_50.1.0.noarch.rpm	Javascript Web Development Toolkit	<p>Licensed under The Free BSD Project (Modified), and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.freebsd.org/copyright/freebsd-license.html</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. 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 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>Copyright © The Dojo foundation (dojofoundation.org)</p> <p>The dojo-1.4.1-5.0.0_50.1.0.noarch.rpm software and sample code developed by The Dojo foundation is licensed under the The Free BSD Project (Modified).</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Google Inc.	gperftools-libs-2.0-3.el6.2	Google Development and Tools Library	See above The Free BSD Project (Modified) Copyright © 1995-2013 The FreeBSD Project The gperftools-libs-2.0-3.el6.2 software and sample code developed by The FreeBSD Project licensed under The Free BSD Project (Modified)
The PHP Group	memcache-2.2.6-5.0.0_50.1.0.x86_64	Interface to memcached daemon	Licensed under the PHP License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.php.net/license/3_01.txt Redistribution and use in source and binary forms, with or without modification, is 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. The name "PHP" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact mailto:group@php.net . 4. Products derived from this software may not be called "PHP", nor may "PHP" appear in their name, without prior written permission from group@php.net. You may indicate that your software works in conjunction with PHP by saying "Foo for PHP"
	uploadprogress-1.0.3.1-5.0.0_50.1.0.x86_64	Tracks progress of file upload	
	The PHP License, version 3.01	PHP Server-Side Scripting Language	
	php-pear-DB-1.7.13-1.fc8prere16.0.0_80.6.0.noarch.rpm	PEAR: Database Abstraction Layer	
	php-pear-Mail-1.1.14-2.fc8prere16.0.0_80.6.0.noarch.rpm	Provides an implementation of the SMTP protocol	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	php-pear-Net-SMTP-1.3.1-1.fc10prere16.0.0_8 0.6.0.noarch.rpm	Network Socket Interface	<p>instead of calling it "PHP Foo" or "phpfoo."</p> <p>5. The PHP Group may publish revised and/or new versions of the license from time to time. Each version will be given a distinguishing version number. Once covered code has been published under a particular version of the license, you may always continue to use it under the terms of that version. You may also choose to use such covered code under the terms of any subsequent version of the license published by the PHP Group. No one other than the PHP Group has the right to modify the terms applicable to covered code created under this License.</p> <p>6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes PHP software, freely available from <http://www.php.net/software/>".</p> <p>7. THIS SOFTWARE IS PROVIDED BY THE PHP DEVELOPMENT TEAM ``AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PHP DEVELOPMENT TEAM OR ITS 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 ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</p> <p>This software consists of voluntary contributions made by many individuals on behalf of the PHP Group.</p> <p>The PHP Group can be contacted via Email at mailto:group@php.net.</p> <p>For more information on the PHP Group and the PHP project, please see <http://www.php.net/>.</p> <p>PHP includes the Zend Engine, freely available at http://www.zend.com</p> <p>Copyright © The PHP Group (us1.php.net), Copyright © The PHP Group. All rights reserved.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The Apache Software Foundation version 1.1	log4cplus-1.0.2-6.0.0_80.8.0.x86_64.rpm	C++ Logging API	<p>Licensed under the Apache License v. 1.1, and you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-1.1 (the "License").</p> <p>Copyright © 2000 The Apache Software Foundation. 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"> 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. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: This product includes software developed by the Apache Software Foundation (http://www.apache.org/). Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear. 4. The names "Apache" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org. 5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation. <p>THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS 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</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	log4cplus-1.0.2-4.0.0_70.9.0	C++ Logging API	<p>POSSIBILITY OF SUCH DAMAGE.</p> <p>This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org/.</p> <p>Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign</p> <p>Copyright © Tad E. Smith mailto:tcsmith@users.sourceforge.net</p>
The Apache Software Foundation version 2.0	xerces-c	C++ XML Parsing Utility	<p>Licensed under the Apache License v. 2.0, and you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0 (the "License").</p> <p>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:</p> <p>(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and</p> <p>(b) You must cause any modified files to carry prominent notices stating that You changed the files; and</p> <p>© 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</p> <p>(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.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>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.</p> <p>Copyright © Apache XML Project</p>
Douglas C. Schmidt	Ace	The ADAPTIVE Communication Environment (ACE(TM))	<p>Licensed under the DOC Software License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at</p>
	ace-6.0.1-6.0.0_80.8.0.x86_64.rpm	The ADAPTIVE Communication Environment (ACE(TM))	<p>http://www.cs.wustl.edu/~schmidt/ACE-copying.html.</p>
	Ace-6.0.1-6.0.0_80.1.0	The ADAPTIVE Communication Environment (ACE(TM))	<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. See the License for the specific language governing permissions and limitations under the License.</p> <p>Copyright © Douglas C. Schmidt</p> <p>The Ace, ace-6.0.1-6.0.0_80.8.0.x86_64.rpm, and Ace-6.0.1-6.0.0_80.1.0 software and sample code developed by Douglas C. Schmidt licensed under DOC Software.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Massachusetts Institute of Technology	curlpp-0.7.3-1	C++ Wrapper for libcurl	<p>Massachusetts Institute of Technology License:</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>Copyright © <2002-2004> <Jean-Philippe Barrette-LaPierre></p> <p>The curlpp-0.7.3-1 software and sample code developed by Jean-Philippe Barrette-LaPierre> licensed under Massachusetts Institute of Technology.</p>
	perl-Module-Signature v. 0.55	Signature File Manipulation Module	<p>See above</p> <p>Massachusetts Institute of Technology</p> <p>Copyright © Audrey Tang</p> <p>The perl-Module-Signature v. 0.55 software and sample code developed by Jean-Philippe Barrette-LaPierre> licensed under Massachusetts Institute of Technology.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
	perl-Try-Tiny v. 0.11	Perl Try/Catch Implementation	<p>See above</p> <p>Massachusetts Institute of Technology</p> <p>Copyright © Yuval Kogman</p> <p>The perl-Try-Tiny v. 0.11 software and sample code developed by Yuval Kogman licensed under Massachusetts Institute of Technology.</p>
	php-pear-Log v. 1.11.2	PEAR Logging Framework	<p>See above</p> <p>Massachusetts Institute of Technology</p> <p>Copyright © Jon Parise, Chuck Hagenbuch, Jan Schneider</p> <p>The php-pear-Log v. 1.11.2 software and sample code developed by Jon Parise, Chuck Hagenbuch, Jan Schneider licensed under Massachusetts Institute of Technology.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Open Market, Inc.	perl-FCGI-0.74-6.0.0_80.1.0.x86_64.rpm	Fast CGI script module	<p>Licensed under the Open Market License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>https://fedoraproject.org/wiki/Licensing/Open_Market_License</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> <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> <p>Copyright © Sven Verdoolaege, Open Market, Inc</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
United States Geological Survey	perl-LSI-MegaSAS-1.02-6.5.0_82.21.0.noarch	Perl interface to monitor LSI MegaRAID controllers	<p>perl-LSI-MegaSAS-1.02-6.5.0_82.21.0.noarch is released to the public domain:</p> <p>This software is in the public domain because it contains materials that originally came from the United States Geological Survey, an agency of the United States Department of Interior. For more information, see the official USGS copyright policy at http://www.usgs.gov/visual-id/credit_usgs.html#copyright.</p>
Mark-Jason Dominus, Plover Systems co.	perl-Devel-Trace v. 0.11	Prints each line before execution	<p>perl-Devel-Trace v. 0.11 is released to the public domain:</p> <p>The author or authors of this code dedicate any and all copyright interest in this code to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this code under copyright law.</p> <p>Copyright © Mark-Jason Dominus, Plover Systems co.</p>
US Army Ballistics Research Lab	ttcp v. 1.12	Network Throughput measuring Utility	<p>ttcp v. 1.12 is released to the public domain:</p> <p>The author or authors of this code dedicate any and all copyright interest in this code to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this code under copyright law.</p> <p>Copyright © US Army Ballistics Research Lab</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
The RE2 Authors	re2 v 20130115-2	Regular Expression Library	<p>Licensed under The Free BSD Project (Style), and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.freebsd.org/copyright/freebsd-license.html</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. 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 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>Copyright © 2009 The RE2 Authors. All rights reserved.</p> <p>The re2 v 20130115-2 software and sample code developed by The Dojo foundation is licensed under the The Free BSD Project (Style).</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Wei Dai	Crypto++ v 5.6.1	C++ Cryptography Library	<p>Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:</p> <p>The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.</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, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE</p> <p>The Crypto++ v 5.6.1 software and sample code developed by The Wei Dai is licensed under the The Boost project / C++ Standards Committee Library Working Group.</p>
Hewlett-Packard Development Company, L.P.	hp-health v. 9.1.0.42	A network performance benchmark	<p>Licensed under the Hewlett-Packard Development Company, L.P. License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdf</p> <p>Copyright © Hewlett-Packard Company</p>
	hponcfg v. 4.0.0	A network performance benchmark	

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
William D Norcott	iozone v. 3	iozone-3-315.i386.rpm	<p>License to freely use and distribute this software is hereby granted by the author, subject to the condition that this copyright notice remains intact. The author retains the exclusive right to publish derivative works based on this work, including, but not limited to, revised versions of this work.</p> <p>THIS SOFTWARE IS PROVIDED BY DON CAPPS AND THE IOZONE CREW "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.</p> <p>Freeware license</p> <p>Copyright © Mark-Jason Dominus, Plover Systems co.</p>
Kontron America, Inc.	ipmimisc v. 1.2.0	Kontron IPMI (Onboard Management) Utilities	<p>Licensed under the 2-clause BDS License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://us.kontron.com/about-kontron/terms-conditions/</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. See the License for the specific language governing permissions and limitations under the License.</p> <p>Copyright © Kontron America, Inc.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Mike D. Schiffman	libnet v. 1.1.2.1	Routines to help with network packet construction and handling	<p>Licensed under The Free BSD Project, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.freebsd.org/copyright/freebsd-license.html</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. 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 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>Copyright © 1998 - 2002 Mike D. Schiffman mike@infonexus.com</p> <p>http://opensource.org/licenses/BSD-2-Clause</p> <p>The libnet v. 1.1.2.1 software and sample code developed by Mike D. Schiffman is licensed under the The Free BSD Project.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Hewlett-Packard Development Company, L.P.	kmod-hpsa v. 3.1.0	HP Smart Array Controller Kernel Modules	<p>Licensed under the Hewlett-Packard Development Company, L.P. License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdf</p> <p>Copyright © Hewlett-Packard Company</p> <p>The kmod-hpsa v. 3.1.0 software and sample code developed by Hewlett-Packard Development Company, L.P. is licensed under the GPLv2+ License</p>
Igor Pavlov, Ville Koskinen and Lasse Collin	lzma v. 4.32.7	A few scripts which provide gzip-like command line interface and a couple of other LZMA related tools.	<p>Copyright © Igor Pavlov, Ville Koskinen and Lasse Collin</p> <p>The lzma v. 4.32.7 software and sample code developed by Hewlett-Packard Development Company, L.P. is licensed under the GPLv2+ License</p>
QLogic License	scli v. 1.7.1	SANsurfer Comand Line Interface	<p>Licensed under the QLogic License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.qlogic.com/CompanyInfo/Pages/TermsConditions.aspx</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. See the License for the specific language governing permissions and limitations under the License.</p> <p>Copyright © QLogic Corporation http://www.qlogic.com/supportx0/agreement.asp</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
OpenSSL license	OpenSSL v 1.0.0-27	Open-Source Cryptography and Security Toolkit for SSL/TLS	<p>Licensed under the OpenSSL License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.openssl.org/source/license.html</p> <p>Copyright © 1998-2011 The OpenSSL 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"> 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. All advertising materials mentioning features or use of this software must display the following acknowledgment: This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)" 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org. 5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project. 6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)" <p>THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY * EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS 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</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
			<p>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 © 1998-2011 The OpenSSL Project. All rights reserved.</p>
gSOAP License	gsoap v. 2.8.0	SOAP/XML data bindings Toolkit?	<p>Licensed under the gSOAP License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.cs.fsu.edu/~engelen/license.html</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. See the License for the specific language governing permissions and limitations under the License.</p> <p>gSOAP is copyrighted by Robert A. van Engelen, Genivia, Inc, Copyright © 2000-2010 Robert A. van Engelen, Genivia, Inc. All Rights Reserved.</p>
Hewlett-Packard Development Company, L.P.	hpacucli v. 9.10	HP Smart Array storage controller CLI	<p>Licensed under the Hpacucli License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at:</p> <p>http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdf</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. See the License for the specific language governing permissions and limitations under the License.</p> <p>Copyright © Hewlett-Packard Company</p> <p>File Licensed Under the hpacucli License.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Hewlett-Packard Development Company, L.P.	hpadu v. 9.10	HP Storage Controller and Disk Drive Diagnostic Utility	<p>Licensed under the Hpacucli License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.hpenterprisesecurity.com/collateral/copyright/ThirdParty_Copyright_Notices_and_License_Terms.pdf 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.</p> <p>Copyright © Hewlett-Packard Company File Licensed Under the hpadu License .</p>
G. Sarathy	perl-Alias	Alias-Perl module	<p>Licensed under the Artistic License, and you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://opensource.org/licenses/Artistic-1.0 http://opensource.org/licenses/Artistic-2.0</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. See the License for the specific language governing permissions and limitations under the License</p> <p>You may obtain a standard version of the above program here: http://support.tekelec.com The following files differ from the standard version of the program: None.</p> <p>Copyright © G. Sarathy gsar@umich.edu</p> <p>The perl-Alias software and sample code developed by G. Sarathy is licensed under Artistic License.</p>
Graham Barr	perl-Error	Error-Perl module	<p>See above</p> <p>Artistic License</p> <p>Copyright © Graham Barr gbarr@pobox.com</p> <p>The perl-Error software and sample code developed by Graham Barr is licensed under Artistic License.</p>

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Neil Neely	perl-Data-Validate-IP-0.14-6.0.0_80.1.0.noarch.rpm	Data-Validate-IP Perl module	See above Artistic License Copyright © Neil Neely The perl-Data-Validate-IP-0.14-6.0.0_80.1.0.noarch.rpm software and sample code developed by Neil Neely is licensed under Artistic License.
Eugene van der Pijll	perl-DateTime-Format-Epoch-0.13-6.0.0_80.1.0.noarch.rpm	DateTime-Format-Epoch Perl module	See above Artistic License Copyright © Eugene van der Pijll The perl-DateTime-Format-Epoch-0.13-6.0.0_80.1.0.noarch.rpm software and sample code developed by Eugene van der Pijll is licensed under Artistic License.
Richard Evans, David Rolsky	perl-DateTime-Locale-0.45-6.0.0_80.1.0.noarch.rpm	DateTime-Locale Perl module	See above Artistic License Copyright © Richard Evans, David Rolsky The perl-DateTime-Locale-0.45-6.0.0_80.1.0.noarch.rpm software and sample code developed by Richard Evans, David Rolsky is licensed under Artistic License.
Dave Rolsky	perl-DateTime-TimeZone-1.41-6.0.0_80.1.0.noarch.rpm	DateTime-TimeZone Perl module	See above Artistic License Copyright © Dave Rolsky The perl-Error software and sample code developed by Dave Rolsky is licensed under Artistic License.
Hermetica, Alligator, Descartes, Tim Bunce	perl-Devel-CoreStack-1.3-6.0.0_80.1.0.noarch.rpm	Devel-CoreStack Perl module	See above Artistic License Copyright © Hermetica, Alligator Descartes, Tim Bunce The perl-Devel-CoreStack-1.3-6.0.0_80.1.0.noarch.rpm software and sample code developed by Hermetica, Alligator, Descartes, Tim Bunce is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Jeff Weisberg	perl-Devel-Profile-1.05-6.0.0_80.1.0.noarch.rpm	Devel-Profile Perl module	See above Artistic License Copyright © Jeff Weisberg The perl-Devel-Profile-1.05-6.0.0_80.1.0.noarch.rpm software and sample code developed by Jeff Weisberg is licensed under Artistic License.
Bill Birthisel, Kees Cook	perl-Device-SerialPort-1.04-6.0.0_80.1.0.x86_64.rpm	Device-SerialPort Perl module	See above Artistic License Copyright © Bill Birthisel, Kees Cook The perl-Device-SerialPort-1.04-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Bill Birthisel, Kees Cook is licensed under Artistic License.
Jesse Luehrs	perl-Dist-CheckConflicts-0.02-6.0.0_80.1.0.noarch.rpm	Dist-CheckConflicts Perl module	See above Artistic License Copyright © Jesse Luehrs The perl-Dist-CheckConflicts-0.02-6.0.0_80.1.0.noarch.rpm software and sample code developed by Jesse Luehrs is licensed under Artistic License.
Casey West	perl-Email-Address-1.892-6.0.0_80.1.0.noarch.rpm	Email-Address Perl module	See above Artistic License Copyright © Casey West The perl-Email-Address-1.892-6.0.0_80.1.0.noarch.rpm software and sample code developed by Casey West is licensed under Artistic License.
Austin Schutz, Roland Giersig	perl-Expect-1.21-6.0.0_80.1.0.noarch.rpm	Expect Perl module	See above Artistic License Copyright © Austin Schutz, Roland Giersig The perl-Expect-1.21-6.0.0_80.1.0.noarch.rpm software and sample code developed by Austin Schutz, Roland Giersig is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Paolo Molaro, muppet, Gtk2 project	perl-ExtUtils-Depends-0.304-6.0.0_80.1.0.noarch.rpm	ExtUtils-Depends Perl module	See above Artistic License Copyright © Paolo Molaro, muppet, Gtk2 project The perl-ExtUtils-Depends-0.304-6.0.0_80.1.0.noarch.rpm software and sample code developed by Paolo Molaro, muppet, Gtk2 project licensed under Artistic License.
Yves Orton, Michael Schwern, Alan Burlison, Randy W. Sims	perl-ExtUtils-Install-1.54-6.0.0_80.1.0.noarch.rpm	ExtUtils-Install Perl module	See above Artistic License Copyright © Yves Orton, Michael Schwern, Alan Burlison, Randy W. Sims The perl-ExtUtils-Install-1.54-6.0.0_80.1.0.noarch.rpm software and sample code developed by Yves Orton, Michael Schwern, Alan Burlison, Randy W. Sims is licensed under Artistic License.
Andreas Koenig	perl-ExtUtils-Manifest-1.60-6.0.0_80.1.0.noarch.rpm	ExtUtils-Manifest Perl module	See above Artistic License Copyright © Andreas Koenig The perl-ExtUtils-Manifest-1.60-6.0.0_80.1.0.noarch.rpm software and sample code developed by Andreas Koenig is licensed under Artistic License.
muppet, Ross McFarland, and the gtk2-perl team	perl-ExtUtils-PkgConfig-1.12-6.0.0_80.1.0.noarch.rpm	ExtUtils-PkgConfig Perl module	See above Artistic License Copyright © muppet, Ross McFarland, and the gtk2-perl team The perl-ExtUtils-PkgConfig-1.12-6.0.0_80.1.0.noarch.rpm software and sample code developed by muppet, Ross McFarland, and the gtk2-perl team is licensed under Artistic License.
Jeff Pinyan	perl-File-chmod-0.32-6.0.0_80.1.0.noarch.rpm	File-chmod Perl module	See above Artistic License Copyright © Jeff Pinyan The perl-File-chmod-0.32-6.0.0_80.1.0.noarch.rpm software and sample code developed by Jeff Pinyan is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Andreas Fitzner, Michael Hendricks	perl-File-LibMagic-0.96-6.0.0_80.1.0.x86_64.rpm	File-LibMagic Perl module	See above Artistic License Copyright © Andreas Fitzner, Michael Hendricks The perl-File-LibMagic-0.96-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Andreas Fitzner, Michael Hendricks is licensed under Artistic License.
Lee Eakin	perl-File-Rsync-0.42-6.0.0_80.1.0.noarch.rpm	File-Rsync Perl module	See above Artistic License Copyright © Lee Eakin The perl-File-Rsync-0.42-6.0.0_80.1.0.noarch.rpm software and sample code developed by Lee Eakin is licensed under Artistic License.
Salvador Fandino	perl-File-Tee v. 0.07	File-Tee Perl module	See above Artistic License
	perl-Regexp-IPv6-0.03-6.0.0_80.1.0.noarch.rpm	Regexp Perl module	Copyright © 2007, 2008, 2010, 2011 by Salvador Fandino mailto:sfandino@yahoo.com . The perl-File-Tee v. 0.07 and perl-Regexp-IPv6-0.03-6.0.0_80.1.0.noarch.rpm software and sample code developed by Salvador Fandino is licensed under Artistic License.
Ian Guthrie	perl-Filesys-Df-0.92-6.0.0_80.1.0.x86_64.rpm	File-Filesys-Df Perl module	See above Artistic License Copyright © Ian Guthrie The perl-Filesys-Df-0.92-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Ian Guthrie is licensed under Artistic License.
Jochen Stenzel	perl-Getopt-ArgvFile-1.11-6.0.0_80.1.0.noarch.rpm	Getopt-ArgvFile Perl module	See above Artistic License Copyright © Jochen Stenzel The perl-Getopt-ArgvFile-1.11-6.0.0_80.1.0.noarch.rpm software and sample code developed by Jochen Stenzel is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Gisle Aas Peter Behroozi	perl-HTTP-Daemon-SSL-1.05_01-6.0.0_80.1.0.noarch.rpm	HTTP-Daemon-SSL Perl module	See above Artistic License Copyright © Gisle Aas, Peter Behroozi The perl-HTTP-Daemon-SSL-1.05_01-6.0.0_80.1.0.noarch.rpm software and sample code developed by Gisle Aas , Peter Behroozi is licensed under Artistic License.
Lincoln Stein	perl-IO-Interface-1.06-6.0.0_80.1.0.x86_64.rpm	IO-Interface Perl module	See above Artistic License Copyright © Lincoln Stein The perl-IO-Interface-1.06-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Lincoln Stein is licensed under Artistic License.
Nicholas J Humfrey , Lincoln Stein	perl-IO-Socket-Multicast6-0.03-6.0.0_80.1.0.noarch.rpm	IO-Socket Perl module	See above Artistic License Copyright © Nicholas J Humfrey , Lincoln Stein The perl-IO-Socket-Multicast6-0.03-6.0.0_80.1.0.noarch.rpm software and sample code developed by Nicholas J Humfrey, Lincoln Stein is licensed under Artistic License.
Alan Citterman, Makamaka Hannyaharamitu, H.Merijn Brand for PROCURA B.V., Jochen Wiedmann, Alan Citterman	perl-Text-CSV-1.21-6.0.0_80.1.0.noarch.rpm	Text-CSV Perl module	See above Artistic License Copyright © Alan Citterman, Makamaka Hannyaharamitu, H.Merijn Brand for PROCURA B.V., Jochen Wiedmann, Alan Citterman The perl-Text-CSV-1.21-6.0.0_80.1.0.noarch.rpm software and sample code developed by Alan Citterman, Makamaka Hannyaharamitu, H.Merijn Brand for PROCURA B.V., Jochen Wiedmann, Alan Citterman is licensed under Artistic License.
Nick Ing-Simmons	perl-Tk-804.028-6.0.0_80.1.0.x86_64.rpm	Tk Perl module	See above Artistic License Copyright © Nick Ing-Simmons The perl-Tk-804.028-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Nick Ing-Simmons is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Ricardo Signes	perl-Version-Requirements-0.101020-6.0.0_80.1.0.noarch.rpm	Version-Requirements Perl module	See above Artistic License Copyright © Ricardo Signes
	perl-Test-Fatal-0.006-6.0.0_80.1.0.noarch.rpm	Test-Fatal Perl module	The perl-Version-Requirements-0.101020-6.0.0_80.1.0.noarch.rpm and perl-Test-Fatal-0.006-6.0.0_80.1.0.noarch.rpm software and sample code developed by Ricardo Signes is licensed under Artistic License.
Mark Mc Keown	perl-WSRF-Lite-0.8.3.0-6.0.0_80.2.0.noarch.rpm	WSRF-Lite Perl module	See above Artistic License Copyright © Mark Mc Keown The perl-WSRF-Lite-0.8.3.0-6.0.0_80.2.0.noarch.rpm software and sample code developed by Mark Mc Keown is licensed under Artistic License.
Enno Derksen	perl-XML-Checker-0.13-6.0.0_80.1.0.noarch.rpm	XML-Checker Perl module	See above Artistic License Copyright © Enno Derksen
	perl-XML-XQL-0.68-6.0.0_80.1.0.noarch.rpm	XML-XQL Perl module	The perl-XML-Checker-0.13-6.0.0_80.1.0.noarch.rpm and perl-XML-XQL-0.68-6.0.0_80.1.0.noarch.rpm software and sample code developed by Enno Derksen is licensed under Artistic License.
Nikolay Pelov	perl-Authen-PAM-0.16-6.0.0_80.1.0.x86_64.rpm	Authen-PAM Perl module	See above Artistic License Copyright © Nikolay Pelov The perl-Authen-PAM-0.16-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Nikolay Pelov is licensed under Artistic License.
Carl Declerck	perl-Authen-Radius-0.13-1.el5.centosprere16.0.0_80.6.0.noarch.rpm	Authen-Radius Perl module	See above Artistic License Copyright © 1997 Carl Declerck The perl-Authen-Radius-0.13-1.el5.centosprere16.0.0_80.6.0.noarch.rpm software and sample code developed by Carl Declerck is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Lincoln D. Stein	perl-CGI.pm-3.55-6.0.0_80.1.0.noarch.rpm	CGI.pm Perl module	See above Artistic License Copyright © Lincoln D. Stein The perl-CGI.pm-3.55-6.0.0_80.1.0.noarch.rpm software and sample code developed by Lincoln D. Stein is licensed under Artistic License.
Shawn M Moore	perl-Class-Load-0.12-6.0.0_80.1.0.noarch.rpm	Class-Load Perl module	See above Artistic License Copyright © Shawn M Moore The perl-Class-Load-0.12-6.0.0_80.1.0.noarch.rpm software and sample code developed by Shawn M Moore is licensed under Artistic License.
Steffen Mueller	perl-Class-XSAccessor-1.12-6.0.0_80.1.0.x86_64.rpm	Class-XSAccessor Perl module	See above Artistic License Copyright © Steffen Mueller The perl-Class-XSAccessor-1.12-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Steffen Mueller is licensed under Artistic License.
Marc Lehmann, Robin Redeker	perl-common-sense-3.4-6.0.0_80.1.0.noarch.rpm	common-sense Perl module	See above Artistic License Copyright © Marc Lehmann, Robin Redeker The perl-common-sense-3.4-6.0.0_80.1.0.noarch.rpm software and sample code developed by Marc Lehmann, Robin Redeker is licensed under Artistic License.
Scott Hutton, Rich Bowen, Jeremy Wadsack, Shlomi Fish	perl-Config-IniFiles-2.68-6.0.0_80.1.0.noarch.rpm	Config-IniFiles Perl module	See above Artistic License Copyright © Scott Hutton, Rich Bowen, Jeremy Wadsack, Shlomi Fish The perl-Config-IniFiles-2.68-6.0.0_80.1.0.noarch.rpm software and sample code developed by Scott Hutton, Rich Bowen, Jeremy Wadsack, Shlomi Fish is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
David Golden and Ricardo Signes	perl-CPAN-Meta-2.112150-6.0.0_80.1.0.noarch.rpm	CPAN-Meta Perl module	See above Artistic License Copyright © David Golden and Ricardo Signes The perl-CPAN-Meta-2.112150-6.0.0_80.1.0.noarch.rpm software and sample code developed by David Golden and Ricardo Signes is licensed under Artistic License.
Adam Kennedy	perl-CPAN-Meta-YAML-0.004-6.0.0_80.1.0.noarch.rpm	CPAN-Meta-YAML Perl module	See above Artistic License Copyright © Adam Kennedy The perl-CPAN-Meta-YAML-0.004-6.0.0_80.1.0.noarch.rpm software and sample code developed by Adam Kennedy is licensed under Artistic License.
Eric Young, Systemics Ltd, W3Works, LLC	perl-Crypt-DES-2.05-6.0.0_80.1.0.x86_64.rpm	Crypt-DES Perl module	See above Artistic License Copyright © Eric Young, Systemics Ltd, W3Works, LLC The perl-Crypt-DES-2.05-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Eric Young, Systemics Ltd, W3Works, LLC is licensed under Artistic License.
Dan Sully	perl-Crypt-OpenSSL-X509-1.800.2-6.0.0_80.1.0.x86_64.rpm	Crypt-OpenSSL-X509 Perl module	See above Artistic License Copyright © Dan Sully The perl-Crypt-OpenSSL-X509-1.800.2-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Dan Sully is licensed under Artistic License.
Fabien Tassin, David Cantrell	perl-Data-Compare-1.22-6.0.0_80.1.0.noarch.rpm	Data-Compare Perl module	See above Artistic License Copyright © Fabien Tassin, David Cantrell The perl-Data-Compare-1.22-6.0.0_80.1.0.noarch.rpm software and sample code developed by Fabien Tassin, David Cantrell is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Fabien Tassin	perl-Data-HexDump-0.02-1.el5.centosprere16.0.0_80.6.0.noarch.rpm	Data-HexDump Perl module	See above Artistic License Copyright © Fabien Tassin <fta@oleane.net> The perl-Data-HexDump-0.02-1.el5.centosprere16.0.0_80.6.0.noarch.rpm software and sample code developed by Fabien Tassin is licensed under Artistic License.
Jarkko Hietaniemi	perl-Graph-0.91-3.el6prere16.0.1_80.32.0.noarch.rpm	Graph Perl module	See above Artistic License Copyright © Jarkko Hietaniemi The perl-Graph-0.91-3.el6prere16.0.1_80.32.0.noarch.rpm software and sample code developed by Jarkko Hietaniemi is licensed under Artistic License.
Makamaka Hannyaharamitu	perl-JSON-PP-2.27200-6.0.0_80.1.0.noarch.rpm	JSON-PP Perl module	See above Artistic License Copyright © Makamaka Hannyaharamitu The perl-JSON-PP-2.27200-6.0.0_80.1.0.noarch.rpm software and sample code developed by Makamaka Hannyaharamitu is licensed under Artistic License.
Marc Lehmann	perl-JSON-XS-2.32-6.0.0_80.1.0.x86_64.rpm	JSON-XS Perl module	See above Artistic License Copyright © Marc Lehmann The perl-JSON-XS-2.32-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Marc Lehmann is licensed under Artistic License.
Nick Cleaton	perl-Lchown-1.01-6.0.0_80.1.0.x86_64.rpm	Lchown Perl module	See above Artistic License Copyright © Nick Cleaton The perl-Lchown-1.01-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Nick Cleaton is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Open Source Development Labs	perl-Linux-Bootloader-1.3-6.0.0_80.1.0.noarch.rpm	Linux-Bootloader Perl module	See above Artistic License Copyright © Open Source Development Labs The perl-Linux-Bootloader-1.3-6.0.0_80.1.0.noarch.rpm software and sample code developed by Open Source Development Labs is licensed under Artistic License.
Chad Kerner	perl-Linux-LVM-0.16-6.0.0_80.12.0.noarch.rpm	Linux-LVM Perl module	See above Artistic License Copyright © Chad Kerner The perl-Linux-LVM-0.16-6.0.0_80.12.0.noarch.rpm software and sample code developed by Chad Kerner is licensed under Artistic License.
Vincent Pit	perl-Linux-SysInfo-0.13-6.0.0_80.1.0.x86_64.rpm	Linux-SysInfo Perl module	See above Artistic License Copyright © Vincent Pit The perl-Linux-SysInfo-0.13-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Vincent Pit is licensed under Artistic License.
Adam Kennedy	perl-LWP-Online-1.08-6.0.0_80.1.0.noarch.rpm	LWP-Online Perl module	See above Artistic License Copyright © Adam Kennedy The perl-LWP-Online-1.08-6.0.0_80.1.0.noarch.rpm software and sample code developed by Adam Kennedy is licensed under Artistic License.
Jan Krynický	perl-Mail-Sender-0.8.16-6.0.0_80.1.0.noarch.rpm	Mail-Sender Perl module	See above Artistic License Copyright © Jan Krynický The perl-Error software and sample code developed by Graham Barr is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Milivoj Ivkovic	perl-Mail-Sendmail-0.79-6.0.0_80.1.0.noarch.rpm	Mail-Sendmail Perl module	See above Artistic License Copyright © Milivoj Ivkovic The perl-Mail-Sendmail-0.79-6.0.0_80.1.0.noarch.rpm software and sample code developed by Milivoj Ivkovic is licensed under Artistic License.
Parliament Hill Computers Ltd/Alain D D Williams	perl-Math-Expression-1.21-6.0.0_80.1.0.noarch.rpm	Math-Expression Perl module	See above Artistic License Copyright © Parliament Hill Computers Ltd/Alain D D Williams The perl-Math-Expression-1.21-6.0.0_80.1.0.noarch.rpm software and sample code developed by Parliament Hill Computers Ltd/Alain D D Williams is licensed under Artistic License.
Geoffrey Rommel	perl-Math-Round-0.06-6.0.0_80.1.0.noarch.rpm	Math-Round Perl module	See above Artistic License Copyright © Geoffrey Rommel The perl-Math-Round-0.06-6.0.0_80.1.0.noarch.rpm software and sample code developed by Geoffrey Rommel is licensed under Artistic License.
Ken Williams, Matt Trout and David Golden	perl-Module-Metadata-1.000006-6.0.0_80.1.0.noarch.rpm	Module-Metadata Perl module	See above Artistic License Copyright © Ken Williams, Matt Trout and David Golden The perl-Module-Metadata-1.000006-6.0.0_80.1.0.noarch.rpm software and sample code developed by Ken Williams, Matt Trout and David Golden is licensed under Artistic License.
Andrew Main (Zefram)	perl-Module-Runtime-0.011-6.0.0_80.1.0.noarch.rpm	Module-Runtime Perl module	See above Artistic License Copyright © Andrew Main (Zefram) The perl-Error software and sample code developed by Andrew Main (Zefram) is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Michael Robinton	perl-Net-Interface-1.012-6.0.0_80.1.0.x86_64.rpm	Net-Interface Perl module	See above Artistic License Copyright © Michael Robinton The perl-Net-Interface-1.012-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Michael Robinton is licensed under Artistic License.
David Muir Sharnoff, Google, Inc.	perl-Net-Netmask-1.9016-6.0.0_80.1.0.noarch.rpm	Net-Netmask Perl module	See above Artistic License Copyright © David Muir Sharnoff, Google, Inc. The perl-Net-Netmask-1.9016-6.0.0_80.1.0.noarch.rpm software and sample code developed by David Muir Sharnoff, Google, Inc. is licensed under Artistic License.
Sampo Kellomaki, Symlabs	perl-Net-SMPP-1.19-6.0.0_80.1.0.noarch.rpm	Net-SMPP Perl module	See above Artistic License Copyright © Sampo Kellomaki, Symlabs The perl-Net-SMPP-1.19-6.0.0_80.1.0.noarch.rpm software and sample code developed by Sampo Kellomaki, Symlabs is licensed under Artistic License.
David M. Town	perl-Net-SNMP-v6.0.1-6.0.0_80.2.0.noarch.rpm	Net-SNMP Perl module	See above Artistic License Copyright © David M. Town The perl-Net-SNMP-v6.0.1-6.0.0_80.2.0.noarch.rpm software and sample code developed by David M. Town is licensed under Artistic License.
Dave Rolsky	perl-Package-DeprecationManager-0.11-6.0.0_80.1.0.noarch.rpm	Package-DeprecationManager Perl module	See above Artistic License Copyright © Dave Rolsky The perl-Package-DeprecationManager-0.11-6.0.0_80.1.0.noarch.rpm software and sample code developed by Dave Rolsky is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Jesse Luehrs	perl-Package-Stash-0.33-6.0.0_80.1.0.noarch.rpm	Package-Stash Perl module	See above Artistic License Copyright © Jesse Luehrs The perl-Package-Stash-0.33-6.0.0_80.1.0.noarch.rpm software and sample code developed by Jesse Luehrs is licensed under Artistic License.
Andy Armstrong	perl-Parallel-Iterator-1.00-6.0.0_80.1.0.noarch.rpm	Parallel-Iterator Perl module	See above Artistic License Copyright Andy Armstrong The perl-Parallel-Iterator-1.00-6.0.0_80.1.0.noarch.rpm software and sample code developed by Andy Armstrong is licensed under Artistic License.
Andrew Main (Zefram), PhotoBox Ltd	perl-Params-Classify-0.013-6.0.0_80.1.0.x86_64.rpm	Params-Classify Perl module	See above Artistic License Copyright © Andrew Main (Zefram), PhotoBox Ltd The perl-Params-Classify-0.013-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Andrew Main (Zefram), PhotoBox Ltd is licensed under Artistic License.
Audrey Tang, Steffen Mueller	perl-PAR-1.002-6.0.0_80.1.0.noarch.rpm	PAR Perl module	See above Artistic License Copyright © Audrey Tang, Steffen Mueller The perl-PAR-1.002-6.0.0_80.1.0.noarch.rpm software and sample code developed by Audrey Tang, Steffen Mueller is licensed under Artistic License.
Audrey Tang	perl-PAR-Packer-1.010-6.0.0_80.1.0.x86_64.rpm	PAR-Packer Perl module	See above Artistic License Copyright © Audrey Tang The perl-PAR-Packer-1.010-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Audrey Tang is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Jeremy Cole	perl-Parse-HP-ACU-0.03-6.0.0_80.1.0.noarch.rpm	Parse-HPACU Perl module	See above Artistic License Copyright © Jeremy Cole The perl-Parse-HP-ACU-0.03-6.0.0_80.1.0.noarch.rpm software and sample code developed by Jeremy Cole is licensed under Artistic License.
David Golden	perl-Perl-OSType-1.002-6.0.0_80.1.0.noarch.rpm	Perl-OSType Perl module	See above Artistic License Copyright © David Golden The perl-Perl-OSType-1.002-6.0.0_80.1.0.noarch.rpm software and sample code developed by David Golden is licensed under Artistic License.
Thomas R. Wyant	perl-PPIx-Regexp-0.021-6.0.0_80.1.0.noarch.rpm	PPIx-Regexp Perl module	See above Artistic License Copyright © Thomas R. Wyant The perl-PPIx-Regexp-0.021-6.0.0_80.1.0.noarch.rpm software and sample code developed by Thomas R. Wyant is licensed under Artistic License.
Elliot Shank	perl-PPIx-Utilities-1.001000-6.0.0_80.1.0.noarch.rpm	PPIx-Utilities Perl module	See above Artistic License Copyright © Elliot Shank The perl-PPIx-Utilities-1.001000-6.0.0_80.1.0.noarch.rpm software and sample code developed by Elliot Shank is licensed under Artistic License.
Tom Zoerner	perl-Quota-1.6.6-6.0.0_80.1.0.x86_64.rpm	Quota Perl module	See above Artistic License Copyright © Tom Zoerner The perl-Quota-1.6.6-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Tom Zoerner is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Damian Conway and Abigail	perl-Regexp-Common-2011041701-6.0.0_80.1.0.noarch.rpm	Regexp-Common Perl module	See above Artistic License Copyright © Damian Conway and Abigail The perl-Regexp-Common-2011041701-6.0.0_80.1.0.noarch.rpm software and sample code developed by Damian Conway and Abigail is licensed under Artistic License.
Chip Turner, Lubomir Rintel	perl-RPM2-1.0-6.0.0_80.7.0.x86_64.rpm	RPM2 Perl module	See above Artistic License Copyright © Chip Turner, Lubomir Rintel The perl-RPM2-1.0-6.0.0_80.7.0.x86_64.rpm software and sample code developed by Chip Turner, Lubomir Rintel is licensed under Artistic License.
Chip Turner	perl-RPM-Specfile-1.51-6.0.0_80.1.0.noarch.rpm	RPM-Specfile Perl module	See above Artistic License Copyright © Chip Turner The perl-Error software and sample code developed by Chip Turner is licensed under Artistic License.
Paul Kulchenko, Randy J. Ray, Byrne Reese, Martin Kutter	perl-SOAP-Transport-FTP-0.711-6.0.0_80.1.0.noarch.rpm	SOAP-Transport-FTP Perl module	See above Artistic License Copyright © Paul Kulchenko, Randy J. Ray, Byrne Reese, Martin Kutter The perl-SOAP-Transport-FTP-0.711-6.0.0_80.1.0.noarch.rpm and perl-SOAP-Transport-JABBER-0.713-6.0.0_80.1.0.noarch.rpm software and sample code developed by Paul Kulchenko, Randy J. Ray, Byrne Reese, Martin Kutter is licensed under Artistic License.
	perl-SOAP-Transport-JABBER-0.713-6.0.0_80.1.0.noarch.rpm	SOAP-Transport Perl module	
Paul Kulchenko	perl-SOAP-Transport-TCP-0.715-6.0.0_80.1.0.noarch.rpm	SOAP-Transport-TCP Perl module	See above Artistic License Copyright © Paul Kulchenko The perl-SOAP-Transport-TCP-0.715-6.0.0_80.1.0.noarch.rpm software and sample code developed by Paul Kulchenko is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Nicholas J Humfrey , Jonathan Steinert	perl-Socket-Multicast6-0.04-6.0.0_80.1.0.x86_64.rpm	Socket-Multicast Perl module	See above Artistic License Copyright © Nicholas J Humfrey , Jonathan Steinert The perl-Socket-Multicast6-0.04-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Nicholas J Humfrey , Jonathan Steinert is licensed under Artistic License.
Kenneth J. Albanowski	perl-Sort-Versions-1.5-6.0.0_80.1.0.noarch.rpm	Sort-Versions Perl module	See above Artistic License Copyright © Kenneth J. Albanowski The perl-Sort-Versions-1.5-6.0.0_80.1.0.noarch.rpm software and sample code developed by Kenneth J. Albanowski is licensed under Artistic License.
Matthew Simon Cavalletto, Evolution Online Systems, Inc.	perl-String-Escape-2010.002-6.0.0_80.1.0.noarch.rpm	String-Escape Perl module	See above Artistic License Copyright © Matthew Simon Cavalletto, Evolution Online Systems, Inc. The perl-String-Escape-2010.002-6.0.0_80.1.0.noarch.rpm software and sample code developed by Matthew Simon Cavalletto, Evolution Online Systems, Inc. is licensed under Artistic License.
Scott Penrose	perl-Sys-Hostname-Long-1.4-6.0.0_80.1.0.noarch.rpm	Sys-Hostname-Long Perl module	See above Artistic License Copyright © Scott Penrose The perl-Sys-Hostname-Long-1.4-6.0.0_80.1.0.noarch.rpm software and sample code developed by Scott Penrose is licensed under Artistic License.
Netscalibur UK, Jonathan Stowe	perl-Sys-Utmp-1.6-6.0.0_80.1.0.x86_64.rpm	Sys-Utmp Perl module	See above Artistic License Copyright © Netscalibur UK, Jonathan Stowe The perl-Sys-Utmp-1.6-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Netscalibur UK, Jonathan Stowe is licensed under Artistic License.

Vendor	Product(s) and Version(s)	Functionality	Licensing Description
Tom Phoenix	perl-Taint-0.07-6.0.0_80.1.0.x86_64.rpm	Taint Perl module	<p>See above</p> <p>Artistic License</p> <p>Copyright © Tom Phoenix</p> <p>The perl-Taint-0.07-6.0.0_80.1.0.x86_64.rpm software and sample code developed by Tom Phoenix is licensed under Artistic License.</p>
Tokuhiko Matsuno	perl-Test-Requires-0.06-6.0.0_80.1.0.noarch.rpm	Test-Requires Perl module	<p>See above</p> <p>Artistic License</p> <p>Copyright © Tokuhiko Matsuno</p> <p>The perl-Test-Requires-0.06-6.0.0_80.1.0.noarch.rpm software and sample code developed by Tokuhiko Matsuno is licensed under Artistic License.</p>

APPENDIX A - GNU General Public License, version 2 (GPL-2.0)

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.

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.

Appendix B: GNU General Public License, version 2 (GPL-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.

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.

APPENDIX C - GNU General Public License, version 3 (GPL-3.0)

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.