Oracle® Communications Policy Management

Licensing Information User Manual

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ORACLE®

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Licensing Information

Description of Product Editions and Permitted Features

Prerequisite Products

Entitled Products and Restricted Use Licenses

Oracle Communications Policy Management – Licensing Notes – Go Forward Products

Product	Subproduct	Licensing Description
Oracle Communications Policy Management	Oracle Communications Policy Management - Configuration Management Platform (Base Fee) – per Server Metric	This product provides the following base Policy Configuration Management functionality: Policy Wizard, Provisioning, SNMP support, KPI Dashboard, Session Viewer, OSSI XML Interface. **Prerequisites:** N/A **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management - Multimedia Policy Engine -- per Server Metric	This product provides the following base Multimedia Policy Engine functionality: Policy run-time, 3GPP support (Gx, Sd, Rx, Sy), State Management, Pooled Quotas, Dynamic Quotas, Time of Day, Session Correlation, Geo-Redundancy, and Advanced Notifications. **Prerequisites:** Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management – Per 1K Network Access Sessions Metric	This product determines the number of concurrent network access sessions allowed within a Policy Management network consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). A network access session is defined as the association between a user endpoint/device and an IP network. Network Access Sessions represent the peak concurrent sessions measured based on highest busy hour session load within a given Policy Management network. **Prerequisites:** Requires Oracle Communications, Policy Management base fee, and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management – Per 500 Transactions per Second Metric	This product determines the number of transactions per second (TPS) allowed within a Policy Management network consisting of one or more multimedia policy engines (MPEs) managed by a single active configuration management platform (CMP). Policy Management, Transactions Per Second number represents the peak TPS measured based on highest busy hour load within a given Policy Management network. **Prerequisites:** [Include any prerequisites in this section.] **Restrictions:** [Include any restrictions in this section.]

Product	Subproduct	Licensing Description
	Oracle Communications Policy Management - Policy Event Records Distribution – per Server Metric	This product provides access to Policy Management, Analytics functionality. It includes the ability to generate Policy Event Record (PER) and Policy Reference Data (PRD) information based on observed criteria and behavior with the Multimedia Policy Engine (MPE) **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management - Policy Front End – per Server Metric	This product provides access to Policy Front End application functionality which includes managing diameter connections and load balancing traffic between the Policy Charging Enforcement Point (PCEF) and Multimedia Policy Engine (MPE) instances. **Prerequisites:** [Include any prerequisites in this section.] **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management - Policy Front End – per 500 Transactions per Second Metric	This product determines the number of transactions per second (TPS) allowed within a Policy Management, Policy Front End application. Policy Management, Policy Front End, Transactions Per Second number represents the peak TPS measured based on highest busy hour load. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management – per 1K Concurrent Subscribers Metric	This product determines the number of unique concurrent subscribers with access to a specified application or service at any one time, within a Policy Management network consisting of one or more multimedia policy engines managed by a single active configuration management platform. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]

Product	Subproduct	Licensing Description
	Oracle Communications Policy Management, Fixed Mobile Convergence – per Server Metric	This product provides access to Fixed Mobile Convergence (FMC) feature set including RADIUS COA, Session Correlation, RADIUS routing. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management, OTT Services Basic – per Server Metric	This product provides access to Sponsored Data Connectivity feature set that provides usage tracking and enables implementation of value-added services for subscriber sessions using sponsored data from 3rd Party / OTT content providers. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management, LTE Enhancement – per Server Metric	This product provides access to enhanced LTE functionality that supports VoLTE feature set including Required-Access-Info AVP on Rx and Gx interface, Charging-Correlation-Indicator AVP on Gx interface and PS to CS handover. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management, Roaming Enhancement – per Server Metric	This product provides support for inbound and outbound roaming use cases, including local breakout using the 3GPP S9 interface. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management, Web Notification – per Server Metric	This product provides generic and flexible framework to post HTTP based events to web services via Policy actions. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]

Product	Subproduct	Licensing Description
	Oracle Communications Policy Management, 4G Service Enhancement – per Server Metric	This product provides Diameter overload control enhancements, Service gateway restoration, and enhancements to handle EPC race conditions. **Prerequisites:** Requires Oracle Communications, Policy Management base fee and Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** [Include any restrictions in this section.]
	Oracle Communications Policy Management, Second Level Authentication - Server Perpetual	This product enables support for second level authentication of user traffic trying to connect to a specific network domain such as for example, Enterprise Network. **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine (base fee) and Configuration Management Platform (base fee) **Restrictions:** N/A
	Oracle Communications Policy Management, Multi-Level OAM - Server Perpetual	This product enables a three-tiered hierarchical implementation of Policy Management OAM function. It provides the ability to provision and configure multiple CMPs at the site level from a top level network CMP **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine (base fee) and Configuration Management Platform (base fee) **Restrictions:** N/A
	Oracle Communications Policy Management, Session Recovery and Timer Enhancement - Server Perpetual	This product enables restoration of state information of LTE sessions when they go out of sync. This helps to preserve the subscriber quality of experience by improving call success rate and providing VoLTE session relaibility. **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine (base fee) and Configuration Management Platform (base fee) **Restrictions:** N/A
	Oracle Communications Policy Management, Cross-APN Session Correlation - Server Perpetual	This product provides the ability to control the policies for 4G/LTE subscriber sessions connected to different Packet Data Networks (PDN) based on shared session information. **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine (base fee) and Configuration Management Platform (base fee) **Restrictions:** N/A

Product	Subproduct	Licensing Description
	Oracle Communications Policy Management, CALEA Support - Server Perpetual	This product provides the ability to track and report connection status and related metrics for CALEA support in CMP dashboard. **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine (base fee) and Configuration Management Platform (base fee) **Restrictions:** N/A

Oracle Communications Policy Management – Licensing Notes – Legacy Products

Product	Subproduct	Licensing Description
Oracle Communications Policy Management	Multimedia Policy Engine (base) – per cluster Metric	This product provides access to base Multimedia Policy Engine functionality including Policy run time engine, Gx support, session state management and basic notifications. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Camiant Management Platform (base) – per cluster Metric	This product provides access to base Policy Configuration Management Platform functionality including Policy Wizard, Provisioning, SNMP support, KPI Dashboard, Session Viewer, OSSI XML Interface. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers **Prerequisites:** [Include any prerequisites in this section.] **Restrictions:** This product is for legacy customer applications only.
	Multiprotocol Routing Agent (base) – per cluster Metric	This product (available on a per server basis) provides access to Policy Front End application functionality which includes managing diameter connections and load balancing traffic between the Policy Charging Enforcement Point (PCEF) and Multimedia Policy Engine (MPE) instances. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** [Include any prerequisites in this section.] **Restrictions:** This product is for legacy customer applications only.

Product	Subproduct	Licensing Description
	Mobile Base 1K Sessions	This product determines the number of concurrent IP-CAN sessions allowed within a Policy Management network consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). A Mobile Base session is defined as the association between a user endpoint/device and an IP network. It includes support for unique Gx session as defined in 3GPP standards. Mobile Base Sessions represent the peak concurrent sessions measured based on highest busy hour session load within a given Policy Management network. **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** This product is for legacy customer applications only.
	Quota 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated Quota Management allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform, and Mobile Base 1K session license. **Restrictions:** This product is for legacy customer applications only.
	DPI 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated DPI co-relation allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform, and Mobile Base 1K session license. **Restrictions:** This product is for legacy customer applications only.
	Time of Day 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated Time of Day policies allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform, and Mobile Base 1K session license. **Restrictions:** This product is for legacy customer applications only.

Product	Subproduct	Licensing Description
	Gx Roaming 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated Gx Roaming policies allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform, and Mobile Base 1K session license. **Restrictions:** This product is for legacy customer applications only.
	LTE 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated 4G/LTE allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform, and Mobile Base 1K session license. **Restrictions:** This product is for legacy customer applications only.
	IMS 1K Sessions	This product determines the number of concurrent Mobile Base sessions with associated IMS Rx reference, allowed within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform, and Mobile Base 1K session license. **Restrictions:** This product is for legacy customer applications only.
	MRA 1K Sessions	This product determines the number of concurrent IP-CAN sessions supported by Multiprotocol Routing Agent within a Policy Management network, consisting of one or more multimedia policy engines(MPEs) managed by a single active configuration management platform (CMP). **Prerequisites:** This product requires Oracle Communications, Policy Management Multiprotocol Routing Agent (MRA) and Configuration Management Platform (CMP) **Restrictions:** This product is for legacy customer applications only.

Product	Subproduct	Licensing Description
	Policy Server Geo-Redundancy – per cluster Metric	This product provides access to Multimedia Policy Engine Geo-Redundancy functionality that enables session state failover between primary and secondary sites. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Sd interface to Traffic Detection Function – per cluster Metric	This product provides access to 3GPP Sd interface functionality between PCRF and Traffic Detection function for policy treatment based on subscriber and application specific criteria. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Sy interface to Online Charging System (OCS) – per cluster Metric	This product provides access to 3GPP Sy interface functionality between PCRF and Online Charging System (OCS). This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Subproduct	Licensing Description
	Location Based Services – per cluster Metric	This product provides access to Location Based Services functionality that allows policy treatment based on subscriber profile and current location information. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Policy Events Feed for Analytics – per cluster Metric	This product provides access to Policy Management, Analytics functionality. It includes the ability to generate Policy Event Record (PER) and Policy Reference Data (PRD) information based on observed criteria and behavior with the MPE. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Pass Management and Top Up – per cluster Metric	This product provides access to Pass Management and Top Up functionality. It includes the ability to overwrite the basic quota allowance through Passes, Top-ups and Roll-Overs. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Subproduct	Licensing Description
	Enhanced Quota Management – per cluster Metric	This product provides access to Enhanced Quota Management functionality which includes dynamic grant of pooled quota. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Enhanced Subscriber Notification Management – per cluster Metric	This product provides access to Enhanced Subscriber Notification including, email, secondary SMS address support, ability to acknowledge receipt of an SMS to handset and log an event. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Diameter over SCTP – per cluster Metric	This product provides access to Diameter over Stream Control Transmission Protocol (SCTP) functionality with Multihoming support for MPE and MRA systems. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** Oracle Communications, Policy management, Multimedia Policy Engine (base fee) Oracle Communications, Policy management, Configuration Management Platform (base fee) Oracle Communications, Policy management, Multiprotocol Routing Agent (base fee) – optional. **Restrictions:** This product is for legacy customer applications only.
	Table Driven Policies – per cluster Metric	This product provides access to Table driven policy configuration for efficient and faster implementation of Policy rules. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers. **Prerequisites:** Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.

Product	Subproduct	Licensing Description
	AVP Wizard – per cluster Metric	This product provides access to AVP Wizard functionality for configuring and provisioning 3rd party custom AVPs in Policy rules. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers. **Prerequisites:** Oracle Communications, Policy management, Configuration Management Platform (base fee) **Restrictions:** This product is for legacy customer applications only.
	Policy Feature Bundle 500 Transactions Per Second	This product determines the number of transactions per second (TPS) allowed within a Policy Management network consisting of one or more multimedia policy engines (MPEs) managed by a single active configuration management platform (CMP). Policy Management, Transactions Per Second number represents the peak TPS measured based on highest busy hour load within a given Policy Management network. **Prerequisites:** This product requires the Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** This product is for legacy customer applications only.
	M2M License per 1K block of devices	This product determines the number of M2M device subscriptions allowed within a Policy Management network consisting of one or more multimedia policy engines managed by a single active configuration management platform. The license provides access to Mobile Base, Quota, DPI, Time of Day, Gx, Roaming functionality. **Prerequisites:** This product requires the Oracle Communications, Policy Management Multimedia Policy Engine and Configuration Management Platform. **Restrictions:** This product is for legacy customer applications only.
	Stateful Dynamic MRA – per cluster Metric	This product provides access to stateful dynamic MRA functionality which includes preserving session binding information and routing any subsequent sessions for the same subscriber to the same MPE. This product is available on a per cluster basis where a cluster is defined as an active/standby pair of servers and optionally a spare for geo-redundant deployments. **Prerequisites:** This product requires Oracle Communications, Policy Management Multiprotocol Routing Agent (MRA) and Configuration Management Platform (CMP) **Restrictions:** This product is for legacy customer applications only.

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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 product.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This product, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use This product 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 product 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 product 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 product"). 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 product; 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 product and to the absence of any warranty; and distribute a copy of This product 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 product.
- 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 product, 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 product, 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 product.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of This product to a given copy of the Library. To do this, you must alter all the notices that refer to This product, so that they refer to the ordinary GNU General Public License, version 2, instead of to This product. (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 product.

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 product. 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 product. You must supply a copy of This product. 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 product. 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 product, 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 product. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under This product. However, parties who have received copies, or rights, from you under This product will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept This product, 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 product. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of This product 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 product.

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 product, they do not excuse you from the conditions of This product. If you cannot distribute so as to satisfy simultaneously your obligations under This product 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 product 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 product.

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 product 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 product incorporates the limitation as if written in the body of This product.

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 product 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.

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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 product 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 product” 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 product. 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 product, and how to view a copy of This product. 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 product are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This product explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by This product only if the output, given its content, constitutes a covered work. This product 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 product 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 product 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 product 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 product 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 product 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 product to anyone who comes into possession of a copy. This product 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 product 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 product 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 product, 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 product, 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.

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