Oracle® Enterprise
Session Border Controller – S-Cz8.2.0

Program Documentation – License DocumentJanuary 2021

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Product	Subproduct	Licensing Description
		including the SBC, by providing signaling and media traffic attack detection and policing, and static and dynamic access control. HA (High Availability) - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object. IDS (Intrusion Detection) – Allows configuration of traps sent when endpoints are demoted to "denied" status. Allows configuration of syslog messages to be recorded when endpoints are demoted to "denied" status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures. IDS Advanced – This feature adds the ability to track total number of rejected SIP calls systemwide. National Emergency Services (NSEP) - Enables support for Emergency Telecommunications Service (ETS), which gives priority treatment for National Security and Emergency Preparedness (NSEP) communications in IP network infrastructures. SIPREC – Enables Oracle Enterprise SBC to replicate sessions to a session recorder according to the SIPREC standard SRTP (Secure Real-Time Transport Protocol) – Enables SRTP (SDES) media encryption. TLS (Transport Layer Security) – Enables cryptographic security for the SIP protocol. This feature is subject to export controls. Prerequisite Products Acme Packet 3900, 4600, 6300 or 6350 platform Entitled Products and Restricted Use Licenses N/A
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Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
		infrastructures. SIPREC – Enables Oracle Enterprise SBC to replicate sessions to a session recorder according to the SIPREC standard SRTP (Secure Real-Time Transport Protocol) – Enables SRTP (SDES) media encryption. TLS (Transport Layer Security) – Enables cryptographic security for the SIP protocol. This feature is subject to export controls. Prerequisite Products Acme Packet 1100 platform Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller – Integrated Software Option – per 5 Concurrent Sessions Metric	Product Editions and Permitted Features This license enables a number of concurrent sessions by Oracle Enterprise Session Border Controller (ISO session capacity) for all protocols combined (SIP, H.323). Pre-requisite Products • Oracle Enterprise Session Border Controller (base fee) – Integrated Software Option – per Server Metric OR • Oracle Enterprise Session Border Controller, SMB Edition (base fee) – Integrated Software Option – per Server Metric Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller – Network-Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features This license enables a number of concurrent sessions by Oracle Enterprise Session Border Controller (ISO session capacity) for all protocols combined (SIP, H.323). This license (available on a per server basis) provides access to base Operating System and basic node management functions such as CLI (Command Line Interface), FTP (file transfer protocol) and SNMP (Simple Network Management Protocol). The following features are available with the base license:

Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
	Oracle Enterprise Session Border Controller,	SRTP (Secure Real-Time Transport Protocol) — Enables SRTP (SDES) media encryption. Exceptions: Not applicable to VME. Requires separate SRTP license. TLS (Transport Layer Security) — Enables cryptographic security for the SIP protocol. This feature is subject to export controls. Exceptions: Not applicable to VME. Requires separate TLS license. Pre-requisite Products Supported virtualized platform OR Acme Packet 1100, 3900, 4600, 6300, or 6350 platform Entitled Products and Restricted Use Licenses N/A Pacity Based Licenses Product Editions and Permitted Features Enables increased administrative security capabilities of the system for password strength,
	Administrative Security – Integrated Software Option – per 5 Concurrent Sessions Metric	password usage policies, user roles, and management of administrative users. Pre-requisite Products Oracle Enterprise Session Border Controller – Integrated Software Option session capacity This license requires an equal number of ISO session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, Administrative Security – Network- Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users. Pre-requisite Products Oracle Enterprise Session Border Controller session capacity This license requires an equal number of session capacity licenses.

Product	Subproduct	Licensing Description
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Product	Subproduct	Licensing Description
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	Oracle Enterprise Session Border Controller, Advanced – Network-Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Includes the following features: Accounting – Allows Oracle Enterprise Session Border Controller to create call accounting records using Radius or by collecting the information in flat files that can stored locally or pushed via FTP to an external server. Fraud Protection – Enables the ability to whitelist, blacklist, rate limit, re-direct and terminate calls on the network. IPSec – Enables the use of IPsec protocol (including IKEv1 or manual keys) for protecting signaling and media. Prerequisites: SSM3 module (for Acme Packet 4600, 6300, or 6350 platforms only – not required for Acme Packet 1100 or 3900) Exceptions: Not applicable to VME. Requires separate IPSec license. IPv4 - IPv6 Interworking – Enables IPv4-IPv6 interworking for signaling and media. Pure IPv6 functionality works without the license being present. Exceptions: Not available on Acme Packet 1100 or 3900 platforms IWF Protocol – Enables Signaling Interworking (such as response to/forward SIP-H.323 signaling messages and set up SIP-H.323 sessions based on system configuration). Allows configuration of

Product	Subproduct	Licensing Description
		IWF-related configuration objects. Load Balancing – Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements. Quality of Service – Enables collection and reporting of Quality of Service (QoS) data (lost packets, jitter, and latency) for session media. Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements. The following features are included in this license: • ENUM Database support • LRT (local route table) Pre-requisite Products • Oracle Enterprise Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, Advanced Security Suite – Integrated Software Option – per 5 Concurrent Sessions Metric	Product Editions and Permitted Features Combines the Data Integrity and Administrative Security features. Features. An ESBC configured with this license complies with the US government Defense Information Systems Agency JITC specification UCR2013. Admin Security – Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users. FIPS – Strengthens the privacy provided by the ESBC's cryptographic module to the levels required by the FIPS 140-2 Standards. Pre-requisite Products Oracle Enterprise Session Border Controller – Integrated

Product	Subproduct	Licensing Description
		Software Option session capacity This license requires an equal number of ISO session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, Advanced Security Suite – Network- Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Combines the Data Integrity and Administrative Security features. Features. An ESBC configured with this license complies with the US government Defense Information Systems Agency JITC specification UCR2013. Admin Security – Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users. FIPS – Strengthens the privacy provided by the ESBC's cryptographic module to the levels required by the FIPS 140-2 Standards. Pre-requisite Products Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, Data Integrity — Integrated Software Option — per 5 Concurrent Sessions Metric	Product Editions and Permitted Features Strengthens the privacy provided by the ESBC's cryptographic module to the levels required by the FIPS 140-2 Standards. Pre-requisite Products Oracle Enterprise Session Border Controller – Integrated Software Option session capacity This license requires an equal number of ISO session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise	Product Editions and Permitted Features

Product	Subproduct	Licensing Description
	Session Border Controller, Data Integrity – Network- Wide Concurrent Session Perpetual Metric	Strengthens the privacy provided by the E-SBC's cryptographic module to the levels required by the FIPS 140-2 Standards. Pre-requisite Products Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, Hardware-Assisted Transcoding – Network-Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Enables the use of 3 rd party DSP-based PCIe card for hardware accelerated transcoding in a VME instance. Pre-requisite Products Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, 6300, or 6350 platforms. AND Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses, and the appropriate ISO codec licenses (as required) Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments
	Oracle Enterprise Session Border Controller, IPSec Trunking – Network- Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Enables the use of the IPSec protocol for protecting signaling and media. Pre-requisite Products • Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, 6300, or 6350 platforms. AND • Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses.

Product	Subproduct	Licensing Description
		Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments
	Oracle Enterprise Session Border Controller, REST API for 3 rd Party Use – Integrated Software Option – per 5 Concurrent Sessions Metric	Product Editions and Permitted Features Enables automated configuration management of the SBC from 3 rd party (i.e. non Oracle) management applications and services. Pre-requisite Products Oracle Enterprise Session Border Controller – Integrated Software Option session capacity This license requires an equal number of ISO session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, REST API for 3 rd Party Use – Network-Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Enables automated configuration management of the SBC from 3 rd party (i.e. non Oracle) management applications and services. Pre-requisite Products Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses N/A
	Oracle Enterprise Session Border Controller, Secure Real-time Transport Protocol (SRTP) – Network-Wide Concurrent Session Perpetual Metric	Product Editions and Permitted Features Enables the use of SRTP (SDES) for encryption of media Pre-requisite Products • Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, 6300, or 6350 platforms. AND • Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses

Product	Subproduct	Licensing Description
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	Oracle Enterprise Session Border Controller, Transport Layer Security (TLS) – Network-Wide Concurrent Session Perpetual Metric	 Product Editions and Permitted Features Enables the use of TLS for encryption of SIP signaling Pre-requisite Products Supported virtualized platform. Not applicable for Acme Packet 1100, 3900, 4600, 6300, or 6350 platforms. AND Oracle Communications Session Border Controller session capacity This license requires an equal number of session capacity licenses. Entitled Products and Restricted Use Licenses This license is only applicable to VME deployments
	Co	dec Licenses
	Transcoding coder/decoder for transcoding module 2, AMR-NB – per 25 Concurrent Sessions Metric	Product Editions and Permitted Features AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec. Pre-requisite Products • Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Enterprise, AMR-NB – 25 Concurrent Sessions Perpetual	Product Editions and Permitted Features AMR-NB license is required in order to enable support for software transcoding to and from AMR-NB codec. Pre-requisite Products

Product	Subproduct	Licensing Description
		Supported virtualized platform. Not available on Acme Packet 1100, 3900, 4600, 6300, and 6350 platforms. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-NB - Integrated Software Option — per 5 Concurrent Sessions Metric	Product Editions and Permitted Features AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec. Pre-requisite Products Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-NB - Network-Wide Concurrent Session Perpetual	Product Editions and Permitted Features AMR-NB royalty license is required in order to enable support for transcoding to and from AMR-NB codec. Pre-requisite Products • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for transcoding module 2, AMR-WB	Product Editions and Permitted Features AMR-WB royalty license is required to enable support for transcoding to and from the AMR-WB codec.

Product	Subproduct	Licensing Description
	(G.722.2) – per 25 Concurrent Sessions Metric	Pre-requisite Products Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Enterprise, AMR-WB (G.722.2) – 25 Concurrent Sessions Perpetual	Product Editions and Permitted Features AMR-WB license is required in order to enable support for software transcoding to and from AMR-WB codec. Pre-requisite Products Supported virtualized platform. Not available on Acme Packet 1100, 3900, 4600, 6300, and 6350 platforms. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-WB (G.722.2) - Integrated Software Option – per 5 Concurrent Sessions Metric	Product Editions and Permitted Features AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec. Pre-requisite Products Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A

Product	Subproduct	Licensing Description
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, AMR-WB (G.722.2) - Network-Wide Concurrent Session Perpetual	Product Editions and Permitted Features AMR-WB royalty license is required in order to enable support for transcoding to and from AMR-WB codec. Pre-requisite Products Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for transcoding module 2, EVRC – per 25 Concurrent Sessions Metric	Product Editions and Permitted Features Required in order to enable support for transcoding to and from EVRC codec. Pre-requisite Products • Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder transcoding module 2, EVRCB – per 25 Concurrent Sessions Metric	Product Editions and Permitted Features Required in order to enable support for transcoding to and from EVRC-B codec. Pre-requisite Products Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding	Product Editions and Permitted Features

Product	Subproduct	Licensing Description
	coder/decoder for transcoding module 2, Opus – Integrated Software Option – per Concurrent Session Metric	Opus royalty license is required in order to enable support for transcoding to and from Opus codec. Pre-requisite Products Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Enterprise, Opus – 25 Concurrent Sessions Perpetual	Product Editions and Permitted Features Opus royalty license is required in order to enable support for transcoding to and from Opus codec. Pre-requisite Products Supported virtualized platform. Not available on Acme Packet 1100, 3900, 4600, 6300, and 6350 platforms. AND Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, Opus - Integrated Software Option – per 5 Concurrent Sessions Metric	Product Editions and Permitted Features Opus royalty license is required in order to enable support for transcoding to and from Opus codec. Pre-requisite Products • Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A

Product	Subproduct	Licensing Description
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, Opus - Network-Wide Concurrent Session Perpetual	Product Editions and Permitted Features Opus royalty license is required in order to enable support for transcoding to and from Opus codec. Pre-requisite Products • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for transcoding module 2, SILK – Integrated Software Option – per Concurrent Session Metric	Product Editions and Permitted Features SILK royalty license is required in order to enable support for transcoding to and from SILK codec. Pre-requisite Products • Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for Oracle Enterprise Session Border Controller, SILK - Integrated Software Option – per 5 Concurrent Sessions Metric	Product Editions and Permitted Features SILK royalty license is required in order to enable support for transcoding to and from SILK codec. Pre-requisite Products • Acme Packet 1100, 3900, 4600, 6300, or 6350 with transcoding module(s). Not available on ESBC VME. AND • Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A
	Transcoding coder/decoder for	Product Editions and Permitted Features SILK royalty license is required in order to enable

Product	Subproduct	Licensing Description
	Oracle Enterprise Session Border Controller, SILK - Network-Wide Concurrent Session Perpetual	support for transcoding to and from SILK codec. Pre-requisite Products Oracle Enterprise Session Border Controller session capacity Requires an equal or greater number of session capacity licenses Entitled Products and Restricted Use Licenses N/A

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		/* * \$Id: tac plus.c,v 1.59 2009-07-16 23:31:26 heas Exp \$
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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

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.

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 $\ensuremath{\mathtt{a}}$

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 $\operatorname{modified}$

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

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all its terms and conditions for copying, distributing or modifying

the Library or works based on it.

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Library), the recipient automatically receives a license from the

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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

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

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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.

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DAMAGES.

END OF TERMS AND CONDITIONS

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

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

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Version 2, June 1991

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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.

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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

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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, $\ensuremath{\text{1}}$
- 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 machinereadable

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 $\ensuremath{\mathsf{medium}}$

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

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You are not responsible for enforcing compliance by third parties to

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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

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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

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those countries, so that distribution is permitted only in or among

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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

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10. If you wish to incorporate parts of the Program into other free

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of preserving the free status of all derivatives of our free software and

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END OF TERMS AND CONDITIONS

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

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

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

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Preamble

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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

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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 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

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 $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

authors of previous versions.

Some devices are designed to deny users access to install or

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

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

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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 nonsource

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

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.

"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.

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All rights granted under this License are granted for the term of

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permission to run the unmodified Program. The output from running a

covered work is covered by this License only if the output, given its

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You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains

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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

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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

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,
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- invalidate such permission if you have separately received it.
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 - 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
- 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 $% \left(1\right) =\left(1\right) +\left(1\right)$

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.

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restrictions" within the meaning of section 10. If the Program as you

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