

Oracle® Communications

Session Router – S-Cz10.0.0

Program Documentation – License Document

Mar 2025

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Product	Subproduct	Licensing Description
Oracle Communications Session Router	Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Determines the maximum number of SIP sessions allowed by Oracle Communications Session Router.</p> <p>This license provides access to operating system and basic node management functions such as CLI, FTP and SNMP. The following features are available with the base license.</p> <p>ACP - Allows Oracle Communications Session Router system to respond to external ACP requests (required for Oracle Communications Delivery Management Suite).</p> <p>TLS (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol. <u>Exceptions:</u> Not applicable to VNF. Requires separate TLS license.</p> <p>HA - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>IDS – Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced – This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>Routing – Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This feature group includes access to configuration elements such as cost, start and end times, days of week, media</p>

Product	Subproduct	Licensing Description
		<p>profiles, and carrier elements:</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) • BGCF (Breakout Gateway Control Function) <p>SIP – Respond to/forward SIP signaling messages and set up SIP sessions based on the system configuration. Allows configuration of SIP-related configuration objects.</p> <p><u>Note:</u> Session Router is licensed in either in Concurrent Session or Message per Second metrics but cannot operate in both modes simultaneously.</p> <p>IPFIX interface – The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><u>Note:</u> Concurrent Session must strictly be used when Oracle Communications Session Router is operating in either dialog or session modes.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Acme Packet 4600 platform <p>OR</p> <ul style="list-style-type: none"> • Acme Packet 4900 platform <p>OR</p> <ul style="list-style-type: none"> • Oracle Server X8-2 <p>OR</p> <ul style="list-style-type: none"> • Oracle Server X9-2 <p>OR</p> <ul style="list-style-type: none"> • Supported virtualized platform <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Router – Network-Wide Message per Second Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Determines the maximum number of incoming and outgoing SIP messages that are processed per second by Oracle Communications Session Router.</p> <p>This license provides access to operating system and basic node management functions such as CLI, FTP and SNMP. The following features are available with the base license.</p> <p>ACP - Allows Oracle Communications Session Router system to respond to external ACP requests (required for Oracle Communications Delivery Management Suite).</p> <p>TLS (Transport Layer Security) – This feature enables cryptographic security for the SIP protocol.</p> <p><u>Exceptions:</u> Not applicable to VNF. Requires separate TLS</p>

Product	Subproduct	Licensing Description
		<p>license.</p> <p>HA - Enables sending and receiving HA heartbeat and check-pointing messages to an HA Peer and take over or relinquish Active status. Allows configuration of the redundancy configuration object.</p> <p>IDS - Allows configuration of traps sent when endpoints are demoted to “denied” status. Allows configuration of syslog messages to be recorded when endpoints are demoted to “denied” status. Enables dynamic demotion of endpoints based upon CAC (call admission control) failures.</p> <p>IDS Advanced - This feature adds the ability to track total number of rejected SIP calls system-wide.</p> <p>Routing - Enables configuration and use of routing (local policy) parameters for signaling protocols supported. This feature group includes access to configuration elements such as cost, start and end times, days of week, media profiles, and carrier elements.</p> <ul style="list-style-type: none"> • ENUM Database support • LRT (local route table) • BGCF (Breakout Gateway Control Function) <p>SIP - Respond to/forward SIP signaling messages and set up SIP sessions based on the system configuration. Allows configuration of SIP-related configuration objects.</p> <p><u>Note</u>: Session Router is licensed in either in Concurrent Session or Message per Second metrics but cannot operate in both modes simultaneously.</p> <p>IPFIX interface - The IPFIX custom interface on the SBC allows for monitoring packet level data. This interface is restricted to be used on the Oracle Communications monitoring products.</p> <p><u>Note</u>: Message per Second must strictly be used when Oracle Communications Session Router is operating in either transaction or stateless modes.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Acme Packet 4600 platform <p>OR</p> <ul style="list-style-type: none"> • Acme Packet 4900 platform <p>OR</p> <ul style="list-style-type: none"> • Oracle Server X8-2 <p>OR</p> <ul style="list-style-type: none"> • Oracle Server X9-2 <p>OR</p> <ul style="list-style-type: none"> • Supported virtualized platform

Product	Subproduct	Licensing Description
		<p>Entitled Products and Restricted Use Licenses N/A</p>
Session Capacity Based Licenses		
<p>Oracle Communications Session Router</p>	<p>Oracle Communications Session Router, Accounting – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Allows Oracle Communications Session Router to create call accounting records using Diameter, Radius or by collecting the information in flat files that can stored locally or pushed via FTP to an external server.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of Oracle Communications Session Router session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Router, Government Security Certification - Network-Wide Concurrent Session Perpetual</p>	<p>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.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of Oracle Communications Session Router session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Router, IPsec Trunking – Network-Wide Concurrent Session Perpetual</p>	<p>Product Editions and Permitted Features Enables the use of IPsec protocol (including IKEv1, IKEv2 or manual keys) for protecting signaling.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> SSM3 module (for Acme Packet 4600 platform only) <p>AND</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of Oracle Communications Session Router session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p>

Product	Subproduct	Licensing Description
		N/A
	Oracle Communications Session Router, Lawful Intercept - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features Allows configuration and use of parameters to enable lawful intercept. See Lawful Intercept Overview section in the CLI guide for details on LI types supported.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of Oracle Communications Session Router session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Router, Load Balancing - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of Oracle Communications Session Router session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Router, REST API for Third Party Use - Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features Enables automated management of the Session Router from 3rd party (i.e. non Oracle) applications and services. Also enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	Oracle Communications Session Router, SIP/SIP-I	<p>Product Editions and Permitted Features</p>

Product	Subproduct	Licensing Description
	Interworking – Network-Wide Concurrent Session Perpetual	<p>Allows native SIP/SIP-I interworking, which is enabled via the sipi-behavior option of the sip-config element.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of session capacity licenses.</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Router, Transport Layer Security (TLS) – Network-Wide Concurrent Session Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables the use of TLS for encryption of SIP signaling for virtual SRs</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide Concurrent Session Perpetual <p>This license requires an equal number of Oracle Communications Session Router session capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>This license is only applicable to Session Router VNF</p>
Messages per Second Based Licenses		
Oracle Communications Session Router	Oracle Communications Session Router, Government Security Certification - Network-Wide Message per Second Perpetual	<p>Product Editions and Permitted Features</p> <p>Enables increased administrative security capabilities of the system for password strength, password usage policies, user roles, and management of administrative users.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router – SIP/SIP <p>This license requires an equal number of Oracle Communications Session Router message per second capacity licenses</p> <p>Entitled Products and Restricted Use Licenses</p> <p>N/A</p>
	Oracle Communications Session Router, Load Balancing - Network-Wide Message per Second Perpetual	<p>Product Editions and Permitted Features</p> <p>Allows configuration and use of Session Agent Groups in order to perform sophisticated load balancing of traffic across core network elements.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> Oracle Communications Session Router - Network-Wide

Product	Subproduct	Licensing Description
		<p>Message per Second Perpetual</p> <p>This license requires an equal number of Oracle Communications Session Router message per second capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Router, REST API for Third Party Use – Network-Wide Message per Second Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Enables automated management of the Session Router from 3rd party (i.e. non Oracle) applications and services. Also enables the use of REST API calls to STI servers for the purposes of STIR authentication and validation.</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Router - Network-Wide Message per Second Perpetual <p>This license requires an equal number of Oracle Communications Session Router message per second capacity licenses</p> <p>Entitled Products and Restricted Use Licenses N/A</p>
	<p>Oracle Communications Session Router, Transport Layer Security (TLS) – Network-Wide Message per Second Perpetual</p>	<p>Product Editions and Permitted Features</p> <p>Enables the use of TLS for encryption of SIP signaling for virtual SRs</p> <p>Pre-requisite Products</p> <ul style="list-style-type: none"> • Oracle Communications Session Router - Network-Wide Message per Second Perpetual <p>This license requires an equal number of Oracle Communications Session Router message per second capacity licenses</p> <p>Entitled Products and Restricted Use Licenses This license is only applicable to Session Router VNF</p>

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Version 3, 29 June 2007

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/*

* connection_list.c - ACPI daemon connection list

*

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```
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```

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

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

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

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

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

String literals

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

Empty macro arguments

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

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

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

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

needs to be coded in some other way.

Avoid unnecessary test before free

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

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

It is better to avoid the test.[*]

Instead, simply free P, regardless of whether it is NULL.

[*] However, if your profiling exposes a test like this in a performance-critical loop, say where P is nearly always NULL, and the cost of calling free on a NULL pointer would be prohibitively

high, consider using `__builtin_expect`, e.g., like this:

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

Trigraphs

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

Suffixes on Integer Constants

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

Common Coding Pitfalls

=====

errno

errno might be declared as a macro.

Implicit int

In C, the 'int' keyword can often be omitted from type declarations.

For instance, you can write

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```
unsigned variable;
```

as shorthand for

```
unsigned int variable;
```

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

```
(unsigned) variable
```

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

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

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

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

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

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

but operate() is called above its definition, you will get an error

about a "type mismatch with previous implicit declaration". The cure is to prototype all functions at the top of the file, or in an appropriate header.

Char vs unsigned char vs int

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

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

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

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

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

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

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

Other common pitfalls

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

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expression-eval

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jsep -

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

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Knockout Fast Foreach

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proj4js

<http://proj4js.org/>

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require-css

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

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Hammer.JS

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

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Normalize.scss

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RequireJS i18n

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

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jsTree <http://jstree.com/>

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select2.js

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

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jQuery UI -

<http://jqueryui.com>

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

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jQuery JavaScript Library

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

Author: Miller Medeiros

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RequireJS text

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

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RequireJS

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

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Knockout JavaScript library

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Python License

A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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

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

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

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