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## Sun Enterprise 10000 Capacity on Demand 1.0 Reference Manual

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# Contents

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Intro(1M)	2
codcheck(1M)	3
codd(1M)	5
codlit(1M)	7
codsendlog(1M)	8
Intro(4)	10
cod_resource(4)	11

# Maintenance Commands

<b>NAME</b>	Intro – Sun Enterprise 10000 Capacity on Demand 1.0 administration								
<b>DESCRIPTION</b>	This section describes commands, scripts, and programs executed in the Sun Enterprise 10000 Capacity on Demand Environment. SSP 3.1.1 is the first release of the SSP software that supports Sun Enterprise 10000 Capacity on Demand 1.0.								
<b>LIST OF COMMANDS</b>	<table><tr><td><b>codcheck(1M)</b></td><td>verify that the Capacity on Demand secure log is valid</td></tr><tr><td><b>codd(1M)</b></td><td>Capacity on Demand daemon</td></tr><tr><td><b>codlit(1M)</b></td><td>install Capacity on Demand license key files</td></tr><tr><td><b>codsendlog(1M)</b></td><td>send the Capacity on Demand secure log file to Sun Microsystems</td></tr></table>	<b>codcheck(1M)</b>	verify that the Capacity on Demand secure log is valid	<b>codd(1M)</b>	Capacity on Demand daemon	<b>codlit(1M)</b>	install Capacity on Demand license key files	<b>codsendlog(1M)</b>	send the Capacity on Demand secure log file to Sun Microsystems
<b>codcheck(1M)</b>	verify that the Capacity on Demand secure log is valid								
<b>codd(1M)</b>	Capacity on Demand daemon								
<b>codlit(1M)</b>	install Capacity on Demand license key files								
<b>codsendlog(1M)</b>	send the Capacity on Demand secure log file to Sun Microsystems								

<b>NAME</b>	codcheck – verify that the Capacity on Demand secure log files are valid.
<b>SYNOPSIS</b>	<b>codcheck</b> [-h] [ <i>files</i> ]
<b>CAUTION</b>	Do not execute this command. It is for the exclusive use of Sun Service personnel or service providers.
<b>DESCRIPTION</b>	<p>The <code>codcheck</code> utility checks that the Capacity on Demand secure log files have not been corrupted. By default, <code>codcheck</code> checks all the secure log files in the <code>/var/opt/SUNWssp/adm</code> directory. If you specify one or more filenames on the command line, only those log files are checked.</p> <p><code>codcheck</code> writes the name of each file it checks to <code>stdout</code>, along with an indication of whether the file is valid or not.</p>
<b>OPTIONS</b>	<p><code>-h</code>                    Display command line usage information.</p> <p><i>files</i>                One or more Capacity on Demand secure log filenames, separated by spaces.</p>
<b>RETURN VALUES</b>	Upon successful completion <code>codcheck</code> returns a zero value; otherwise, it returns a non-zero value.
<b>EXAMPLES</b>	<p><b>EXAMPLE 1</b></p> <p>The following example shows the usage information displayed by the <code>-h</code> option:</p> <pre>\$ codcheck -h COD Secure Log Checker (codcheck) Usage: codcheck [-h] [<i>files</i>] Where:   <i>files</i> are one or more COD log files to check.   -h        Displays this help message and exits</pre> <p><b>EXAMPLE 2</b></p> <p>In this example, one file is specified on the command line:</p> <pre>\$ codcheck \$SSPLOGGER/cod.log Checking file /var/opt/SUNWssp/adm/cod.log . . . OK</pre> <p><b>EXAMPLE 3</b></p> <p>This example shows the default behavior of <code>codcheck</code>:</p> <pre>\$ codcheck Checking file /var/opt/SUNWssp/adm/cod.log . . . OK</pre>



```
Checking file /var/opt/SUNWssp/adm/cod.log.0 . . . OK
Checking file /var/opt/SUNWssp/adm/cod.log.1 . . . Invalid (line 1)
Checking file /var/opt/SUNWssp/adm/cod.log.2 . . . Invalid (line 1)
Checking file /var/opt/SUNWssp/adm/cod.log.3 . . . Invalid (line 1)
Checking file /var/opt/SUNWssp/adm/cod.log.4 . . . Invalid (line 1)
Checking file /var/opt/SUNWssp/adm/cod.log.5 . . . Invalid (line 1)
```

**FILES**

codcheck uses the following files:

/var/opt/SUNWssp/adm/cod.log

The Capacity on Demand secure log file.

/var/opt/SUNWssp/adm/cod.log.[0-12]

Archived secure log files.

**SEE ALSO**

**codd(1M)**

*Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide*

*Sun Enterprise 10000 SSP 3.1.1 User Guide*

<b>NAME</b>	codd – Sun Enterprise 10000 Capacity on Demand daemon
<b>SYNOPSIS</b>	<b>codd</b>
<b>CAUTION</b>	Do not execute this command manually. It is automatically invoked and monitored for restart by the SSP startup script.
<b>DESCRIPTION</b>	<p>The Capacity on Demand daemon is a process that runs in the background on the SSP that verifies that the resources being used on the Capacity on Demand system are in agreement with the licenses found in the license file.</p> <p>If the license file validation fails or the number of processors in use exceeds the number of processor licenses, <code>codd</code> sends a warning message to the following:</p> <ul style="list-style-type: none"> <li>■ The platform messages file on the SSP (<code>/var/opt/SUNWssp/adm/messages</code>)</li> <li>■ The system log file on the SSP (<code>/var/adm/messages</code>)</li> <li>■ The secure Capacity on Demand log file (<code>/var/opt/SUNWssp/adm/cod.log</code>)</li> <li>■ The <code>/etc/motd</code> file on the SSP.</li> <li>■ The <code>ssp</code> user as an email message, and to any other users listed in the <code>/var/opt/SUNWssp/.ssp_private/cod_resource</code> file.</li> <li>■ All users logged in to the SSP (sent by using <code>wall(1M)</code>).</li> </ul> <p><code>codd</code> generates warning messages until the number of processors in use is the same as, or less than, the number of processor licenses.</p> <p>The Capacity on Demand daemon performs the following license validation checks when it is started:</p> <ul style="list-style-type: none"> <li>■ Verifies that the license file exists</li> <li>■ Verifies that the license file has not been modified</li> <li>■ Verifies that all licenses listed in the license file are valid for this host</li> <li>■ Verifies that the number of processors in use does not exceed the number of licenses</li> </ul> <p>After <code>codd</code> starts, it runs until the SSP is shutdown or switched over to the spare SSP, performing license validation checks at regular intervals.</p>
<b>FILES</b>	<p><code>codd</code> uses the following files:</p> <p><code>/var/opt/SUNWssp/.ssp_private/SUNWcod.lic</code></p>

Contains Capacity on Demand license keys.

`/var/opt/SUNWssp/adm/cod.log`

The secure Capacity on Demand log file.

`/var/opt/SUNWssp/.ssp_private/cod_resource`

The Capacity on Demand resource file.

**SEE ALSO**

`codlit(1M)`, `cod_resource(4)`

*Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide*

*Sun Enterprise 10000 SSP 3.1.1 User Guide*

<b>NAME</b>	codlit – install Capacity on Demand license keys
<b>SYNOPSIS</b>	<b>codlit</b> [-h ] <i>files</i>
<b>DESCRIPTION</b>	<p>codlit installs Capacity on Demand license keys in the license file. Before running this command, you must obtain license keys from your sales representative (see the <i>Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide</i>) and copy the license keys to the SSP.</p> <p>codlit performs validity checks on the existing license file, as well as license key files (the same validity checks that are performed by <code>codd(1M)</code>). Any error messages that result from these validity checks are written to standard error.</p> <p>codlit does not install a license in the following situations:</p> <ul style="list-style-type: none"> <li>■ The license is a duplicate of a line already in the license file.</li> <li>■ The license is expired.</li> <li>■ The license is in the wrong tier class.</li> <li>■ The license has an incorrect host ID.</li> <li>■ The license has a signature code that does not match the license line.</li> <li>■ The license is at a tier level for which the tier prerequisites have not been satisfied.</li> </ul>
<b>OPTIONS</b>	<p>The following options are supported:</p> <p>-h                    Display command line usage information.</p> <p><i>files</i>                One or more license key filenames, separated by white space.</p>
<b>RETURN VALUES</b>	Upon successful completion <code>codlit</code> returns a zero value; otherwise, it returns a non-zero value.
<b>EXAMPLES</b>	<p><b>EXAMPLE 1</b></p> <p>The following example shows the message <code>codlit</code> displays for each license key file:</p> <pre>ssp% codlit file codlit: x license key(s) installed from file, file</pre>
<b>SEE ALSO</b>	<p><code>codd(1M)</code></p> <p><i>Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide</i></p> <p><i>Sun Enterprise 10000 SSP 3.1.1 User Guide</i></p>

<b>NAME</b>	<code>codsendlog</code> – send the Capacity on Demand secure log file to Sun Microsystems
<b>SYNOPSIS</b>	<b>codsendlog</b> [-h] [monthly]
<b>CAUTION</b>	Do not execute this command. It is for the exclusive use of Sun Service personnel or service providers.
<b>DESCRIPTION</b>	<p><code>codsendlog</code> sends an email message to Sun Microsystems that contains the Capacity on Demand secure log file.</p> <p>The address to which the email is sent is specified by the <code>SunAddr</code> resource in the <code>cod_resource(4)</code> file. If the <code>SunAddr</code> resource is missing, email is sent to <code>COD_lic@sun.com</code>.</p>
<b>OPTIONS</b>	<p>The following options are supported:</p> <p><code>-h</code>                    Display command line usage information.</p> <p><code>monthly</code>              Do not use this parameter; it is used only by the log rotation utility that is started by <code>cron(1M)</code> each month.</p>
<b>RETURN VALUES</b>	Upon successful completion <code>codsendlog</code> returns a zero value; otherwise, it returns a non-zero value.
<b>SEE ALSO</b>	<p><code>codd(1M)</code>, <code>cod_resource(4)</code></p> <p><i>Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide</i></p> <p><i>Sun Enterprise 10000 SSP 3.1.1 User Guide</i></p>

# Capacity on Demand 1.0 File Formats

<b>NAME</b>	Intro – Capacity on Demand 1.0 files.
<b>DESCRIPTION</b>	This section contains man pages for Capacity on Demand configuration files.
<b>LIST OF FILES</b>	<code>cod_resource(4)</code> Capacity on Demand resource file

<b>NAME</b>	cod_resource – Capacity on Demand resource file
<b>DESCRIPTION</b>	<p>The <code>cod_resource</code> file contains Capacity on Demand resource information. This file is read by the Capacity on Demand daemon, <code>codd(1M)</code>, when it is started, and by <code>codsendlog(1M)</code> when it is invoked.</p> <p>The resources in the <code>cod_resource</code> file have the following format:</p> <pre>resource_name:resource_value</pre> <p>where <i>resource_name</i> is the name of the resource and <i>resource_value</i> is the value for the resource. Each resource name can only occur once in the <code>cod_resource</code> file. Resource names are case sensitive.</p> <p>The <code>LicenseNotifyList</code> resource lists user names to which email violation notifications are sent. In the default <code>cod_resource</code> file, <code>LicenseNotifyList</code> contains the <code>ssp</code> user. Removing the <code>ssp</code> user from the <code>LicenseNotifyList</code> resource (or removing the <code>LicenseNotifyList</code> resource from this file) has no effect; email violation messages are still sent to the <code>ssp</code> user. You can add additional email addresses to the <code>cod_resource</code> file by editing the file with a text editor. The value of <code>LicenseNotifyList</code> is a list of email addresses separated by spaces. For example:</p> <pre>LicenseNotifyList:ssp root</pre> <p>The <code>SunAddr</code> resource specifies the email address at Sun Microsystems to which the secure log file is sent each month. You can customize this address as needed by editing the <code>cod_resource</code> file with a text editor. For example, you might need to add additional address information required to send email external to your site. If you remove the <code>SunAddr</code> resource from this file, the secure log file will be sent to <code>COD_lic@sun.com</code> (the default email address).</p> <p>The default <code>cod_resource</code> file contains the following:</p> <pre>LicenseNotifyList:ssp SunAddr:COD_lic@sun.com</pre> <p>If you modify the <code>cod_resource</code> file, you must stop and restart the SSP, as follows:</p> <pre>ssp# /etc/init.d/ssp stop ssp# /etc/init.d/ssp start</pre>
<b>FILES</b>	<p>The following file is supported:</p> <pre>\$\$SSPVAR/.ssp_private/cod_resource</pre>
<b>SEE ALSO</b>	<code>codd(1M)</code>