

Sun Enterprise™ 10000 Capacity on Demand 1.0 Installation Guide and Release Notes



THE NETWORK IS THE COMPUTER™

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Preface

This document contains the release notes for Sun Enterprise 10000 Capacity on Demand 1.0. It also describes how to how to install the Capacity on Demand software on a spare System Service Processor (SSP) and how to re-install it on the main SSP.

Before You Read This Book

This manual is intended for the Sun Enterprise 10000 system administrator who is familiar with SSP administration. Refer to the *Sun Enterprise 10000 SSP 3.1.1 User Guide* and *Sun Enterprise 10000 SSP 3.1.1 Reference Manual*. SSP 3.1.1 is the first release of SSP software that supports Capacity on Demand 1.0. The Sun Enterprise 10000 system administrator must also have a working knowledge of UNIX® systems, particularly those based on the Solaris™ operating environment. If you do not have such knowledge, you must first read the Solaris User and System Administrator AnswerBook2™ collections provided with this system, and consider UNIX system administration training.

Using UNIX Commands

This document does not contain information on basic UNIX commands and procedures such as shutting down the system, booting the system, and configuring devices.

See one or more of the following for this information:

- AnswerBook online documentation for the Solaris software environment, particularly those dealing with Solaris system administration
- Other software documentation that you received with your system

Typographic Conventions

TABLE P-1 Typographic Conventions

Typeface or Symbol	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output.	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output.	% su Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this.
	Command-line variable; replace with a real name or value	To delete a file, type <code>rm filename</code>

Shell Prompts

TABLE P-2 Shell Prompts

Shell	Prompt
C shell	<i>machine_name%</i>
C shell superuser	<i>machine_name#</i>
Bourne shell and Korn shell	<i>\$</i>
Bourne shell and Korn shell superuser	<i>#</i>

Related Documentation

TABLE P-3 Related Documentation

Application	Title	Part Number
Administrator Guide	<i>Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide</i>	806-2190-10
Reference (man pages)	<i>Sun Enterprise 10000 Capacity on Demand 1.0 Reference Manual</i>	806-2191-10
Other	<i>Sun Enterprise 10000 SSP 3.1.1 User Guide</i>	805-7519-10
	<i>Sun Enterprise 10000 SSP 3.1.1 Reference Manual</i>	805-7520-10
	<i>Sun Enterprise 10000 Dynamic Reconfiguration User's Guide</i>	805-7985-10
	<i>Sun Enterprise 10000 Dynamic Reconfiguration Reference Manual</i>	805-7986-10
	<i>Sun Enterprise Server Alternate Pathing User's Guide</i>	805-5985-10
	<i>Sun Enterprise Server Alternate Pathing Reference Manual</i>	805-5986-10

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Release Notes

General Issues

Printing the Capacity on Demand 1.0 Documentation

To print the *Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide* or the *Sun Enterprise 10000 Capacity on Demand 1.0 Reference Manual*, print the appropriate PostScript™ file from the `/cdrom/cdrom0/Docs` directory on the CD-ROM or the `Docs` directory in the directory in which you downloaded the files from the Web.

Viewing man pages with AnswerBook2 Server

When viewing the man page collection with the AnswerBook2 server, click on a man page from the list shown below the alphabet. Clicking on the letters of the alphabet shown at the top of the page does not always display the section in which you are interested.

Viewing man Pages with man(1M)

To view man pages using man(1M):

1. Make sure that the environment variable `MANPATH` includes the directory for the SSP man pages (`/opt/SUNWssp/man`).
2. Run `catman -w`.

Known Bugs

unique `smancommon.ent` file not supp on Sol 2.6 and 7 (4264517)

Description: Solaris 2.6 and Solaris 7 do not support unbundled versions of the `smancommon.ent` file, or use of a common file with a different name, which prevents the `man(1M)` command from functioning properly. Capacity on Demand 1.0 man pages displayed using `man(1M)` will not display some of the headings, such as "OPTIONS" and "SEE ALSO". The information indicated by the heading is present; only the heading is missing.

Workaround: None.

Patches

SSP 3.1.1

For SSP 3.1.1, you must install patch 108135-01, which fixes bug number 4258031 (`codd` does not stop when SSP made into spare). This patch can be found in the `Patches` directory (in the directory in which you downloaded the software from the Web).

Installing Capacity on Demand 1.0

The Capacity on Demand 1.0 software and the license key(s) that you ordered with the system were installed on your Sun Enterprise 10000 system by Sun personnel.

If you are using a spare SSP, you must install the Capacity on Demand 1.0 software on it (see the procedure below). If you need to re-install the Capacity on Demand 1.0 software, due to a disk failure or other problem, see “To Re-install Capacity on Demand 1.0 on the Main SSP” on page 5.

Installing Capacity on Demand 1.0 on a Spare SSP

If you are using a spare SSP, it must be running the same version of the SSP software and the same version of the Solaris operating environment that you are running on the main SSP.

If you are using SSP 3.1.1 software on the main and spare SSP, you must install patch 108135-01.

▼ To Install Capacity on Demand 1.0 on a Spare SSP

- 1. Back up the SSP environment on the main SSP by using `ssp_backup(1M)`.**

You will use this backup file to copy the main SSP environment, including Capacity on Demand configuration information, to the spare SSP later in this procedure.
- 2. Download the Capacity on Demand 1.0 software from the Web.**
 - a. Point your Web browser to this URL:** <http://www.sun.com/servers/sw>.

- b. Click the **Enterprise 10000 Capacity On Demand (COD) Software link**.
- c. Click the **Click here to download link**.

The file that will be downloaded is named `sun_cod_1_0.tar.Z`.

3. On the SSP, log in as superuser.
4. If the SSP processes are running (these processes are normally run on the main SSP, not the spare), stop them:

```
ssp# /etc/init.d/ssp stop
```

5. Change directory to the location where you downloaded the Capacity on Demand software.

```
ssp# cd download_directory
```

6. Extract the downloaded file by typing:

```
ssp# uncompress sun_cod_1_0.tar.Z | tar xvf
```

7. Install the Capacity on Demand packages by typing:

```
ssp# pkgadd -d Product SUNWcod SUNWcodmn SUNWcodbk
```

8. On the spare SSP, restore the backup file from Step 1 by using `ssp_restore(1M)`.

If you did not back up the main SSP in Step 1, you must copy the following files from the main SSP to the spare SSP:

- License file (`/var/opt/SUNWssp/.ssp_private/SUNWcod.lic`)
- `cod_resource` file (`/var/opt/SUNWssp/.ssp_private/cod_resource`)
- Secure log file and the copies of the log file that are saved monthly (`/var/opt/SUNWssp/adm/cod.log` and `/var/opt/SUNWssp/adm/cod.log.*`)
- `blacklist(4)` file (`/var/opt/SUNWssp/etc/platform_name/blacklist`)

Re-installing Capacity on Demand 1.0

The Capacity on Demand 1.0 software was installed on your Sun Enterprise 10000 system by Sun personnel. If you have a disk failure, or other problem, on the main SSP and do not have a backup file, you will need to re-install the Solaris operating environment, the SSP software, and the Capacity on Demand 1.0 software, as described in the following procedure.

▼ To Re-install Capacity on Demand 1.0 on the Main SSP

1. Install the Solaris operating environment.

Refer to one of the following manuals:

- For Solaris 2.6, see the *Solaris 2.6 System Administrator Collection Vol 1—Solaris Advanced Installation Guide*.
- For Solaris 7, see the *Solaris 7 Installation Collection—Solaris Advanced Installation Guide*.

2. Re-install the SSP software as described in the *Sun Enterprise 10000 SSP 3.1.1 Installation Guide and Release Notes* or *Sun Enterprise 10000 SSP 3.2 Installation Guide and Release Notes*.

If you install the SSP 3.1.1 software, you must also install patch 108135-01.

If the SSP processes are running, stop them:

```
ssp# /etc/init.d/ssp stop
```

3. Download the Capacity on Demand 1.0 software from the Web.

- a. Point your Web browser to this URL: <http://www.sun.com/servers/sw>.
- b. Click the Enterprise 10000 Capacity On Demand (COD) Software link.
- c. Click the Click here to download link.

The file that will be downloaded is named `sun_cod_1_0.tar.Z`.

4. On the SSP, log in as superuser.

5. Change directory to the location where you downloaded the Capacity on Demand software.

```
ssp# cd download_directory
```

6. Extract the downloaded file by typing:

```
ssp# uncompress sun_cod_1_0.tar.Z | tar xvf
```

7. Install the Capacity on Demand packages by typing:

```
ssp# pkgadd -d Product SUNWcod SUNWcodmn SUNWcodbk
```

8. If you have a backup file of the SSP environment that you created with `ssp_backup(1M)`, type:

```
ssp# ./ssp_restore backup_directory/ssp_backup.cpio
```

Where *backup_directory* is the directory in which the `ssp_backup.cpio` file created by `ssp_backup(1M)` resides.

9. If you did not restore the SSP environment in Step 8, you must edit the Capacity on Demand license file, `cod_resource(4)` file, and create the `blacklist(4)` file.
- If your license key files are stored on a system other than the SSP, copy them to the SSP.
 - If you do not have license key files or the email attachment containing the license keys, you can create the license key file using any text editor; you must type in the license keys from the license certificates. Refer to the *Sun Enterprise 10000 Capacity on Demand Administrator Guide*.
 - If you do not have your license certificates, contact your sales representative.
- a. Log in to the SSP as user `ssp`.
 - b. Change directory to the directory in which your license key files reside.

c. Type:

```
ssp% codlit filenames  
codlit: 2 license key(s) installed from file, filename
```

where *filenames* is a list of one or more filenames (separated by spaces) of license key files. If you specify more than one filename on the command line, `codlit(1M)` prints a line for each file that indicates how many license keys were installed from that file.

Note – It is suggested that you save copies of your license files on a system other than the SSP.

d. Add the processors for which you do not have licenses to the `blacklist(4)` file.

You can modify the `blacklist(4)` file with a text editor. See the *Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide*.

e. Using a text editor, edit the `cod_resource(4)` file, as needed.

Enter values for the `LicenseNotifyList` and `SunAddr` resources. See the `cod_resource(4)` man page or the *Sun Enterprise 10000 Capacity on Demand 1.0 Administrator Guide*.

10. Back up the SSP environment using `ssp_backup(1M)`.

Note – If you are using a spare SSP, the spare SSP must run the same version of the SSP software and the Solaris operating environment that you are running on the main SSP.

11. Log in as superuser and start the SSP processes:

```
ssp# /etc/init.d/ssp start
```

12. Check the Capacity on Demand log:

```
ssp% cat $SSPLOGGER/cod.log
```

Look for a Capacity on Demand startup message similar to the following:

```
Thu Aug 19 14:01:41 1999 1014:SSP codd started 935096501.880  
808edcd5 a69f04 1719 ZP4pcDBQhoe8rkAldMpXTw
```

and the Capacity on Demand heartbeat message that follows the startup message and indicates the number of processors in use and the number of licensed processors.