



# Sun Control Station CC Edition Software Installation Guide

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# Preface

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This guide describes how to install the Sun™ Control Station CC Edition product, henceforth referred to as Sun Control Station software.

Performing the tasks and procedures outlined in this guide require administrator privileges.

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## How This Book Is Organized

This guide contains the following chapters:

- [Chapter 1](#) describes the requirements and installed components for the Sun Control Station software. It also includes a preinstallation checklist.
- [Chapter 2](#) explains how to download and install the Sun Control Station software.
- [Chapter 3](#) explains how to uninstall the Sun Control Station software.
- [Chapter 4](#) explains how to resolve issues that you might encounter after installing the Sun Control Station software.

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# Typographic Conventions

Typeface	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.
<b>AaBbCc123</b>	What you type, when contrasted with on-screen computer output	% <b>su</b> Password:
<i>AaBbCc123</i>	Book titles, new words or terms, and terms to be emphasized, Replace command-line variables with real names or values.	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. To delete a file, type <code>rm filename</code> .

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## Related Documentation

The following documents provide additional information about the Sun Control Station product and the individual control modules.

Application	Title	Part Number
Sun Control Station CC Edition	<i>Sun Control Station CC Edition Administration Guide</i>	819-1073
Configuration and Service Tracker, Version 3.5.2 (CST)	<i>Configuration and Service Tracker, Version 3.5.2, Customer Installation and Administration Guide</i>	817-0706
Local Patch Server (LPS)	<i>Local Patch Server Installation and User's Guide</i>	819-1128
Data Manager Module (DMM)	<i>Sun Data Manager Module Installation and Administration Guide</i>	819-1079
Release Notes	<i>Sun Control Station CC Edition Release Notes</i>	819-1507

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# Planning the Installation

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This chapter provides the information you need to plan to install the Sun Control Station CC Edition software, henceforth referred to as Sun Control Station software.

This chapter covers the following topics:

- [“Installation Modules” on page 1](#)
- [“Dependencies, Requirements, and Limitations” on page 2](#)
- [“System Requirements” on page 3](#)
- [“Installed Software Components” on page 5](#)
- [“Preinstallation Checklist” on page 6](#)

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## Installation Modules

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**Note** – The Sun Control Station software runs on the Solaris™ 9 Operating System and on the Solaris 10 Operating System.

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The Sun Control Station application is designed to help you manage your systems. It is the framework for the following modules, which are available with the Sun Control Station installation:

- **Configuration and Service Tracker (CST) 3.5.2 middleware server software.** CST is designed to track system configuration and availability issues. The CST application has agent and server components. The agent components are included in Sun<sup>SM</sup> Net Connect 3.2. The server components are downloaded as part of the Sun Control Station software.
- **Local Patch Server (LPS).** LPS provides a method of storing and distributing patches within your intranet. LPS is downloaded as part of the Sun Control Station software for the Solaris 9 OS. However, LPS is not downloaded with the Sun Control Station software for the Solaris 10 OS.

- **Data Manager Module (DMM).** The DMM is an optional module that aggregates message traffic for your Sun Net Connect 3.2 monitored systems. To complete the entire DMM installation, you must first install the Sun Control Station software, then download and install the DMM software from the Sun Net Connect web site at <https://srsnetconnect.sun.com>.

Go to the Sun Download Center to download the Sun control Station CC Edition software for either the Solaris 9 OS or the Solaris 10 OS.

You can access the software manuals in PDF format from the browser interface by clicking the Help icon (question mark icon) in the upper right corner of the Sun Control Station CC Edition web page.

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## Dependencies, Requirements, and Limitations

- The Sun Control Station application requires an existing connection to the Internet or a frame relay line.
- **On a Solaris 9 system:** You must install the following packages (from the Solaris Companion CD) on the server before you install the Sun Control Station software:
  - MySQL Database Management System application (SFWmysql)
  - Gcmn 1 Common GNU package (SFWgcmn)
  - New curses library (SFWncur)

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**Note** – If you do not have the Solaris Companion CD, go to <http://www.sun.com/software/solaris/freeware> and click Companion Software Individual Packages Download for your Solaris OS version. At Select a Download, click the companion software for your platform. Log in to the Sun Download Center and download the packages.

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- You must uninstall any version of Sun Net Connect and the CST agent before you install the Sun Control Station CC Edition software.
- On the Solaris 10 OS, the Sun Net Connect software and the Sun Control Station CC Edition software only function in the global (default) zone.
- You must install the SCS software on a local file system. You cannot install it on an NFS-mounted file system.

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# System Requirements

The Sun Control Station software runs on the Solaris 9 OS and the Solaris 10 OS.

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**Note** – The LPS application is available in the Sun Control Station software for the Solaris 9 OS. You must download and install LPS separately for the Solaris 10 OS.

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This section covers the following topics:

- [“Recommended Server Configuration” on page 3](#)
- [“Patches” on page 4](#)
- [“Web Browser Requirements” on page 4](#)
- [“Ports” on page 4](#)

## Recommended Server Configuration

The Sun Control Station software works best on a dedicated server.



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**Caution** – You *must* install the Sun Control Station CC Edition software on a local file system of your server. You cannot install it on a remotely mounted file system.

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- At least a 1 GHz SPARC® processor
- 1 Gbyte of RAM
- At least 60 Gbytes of free disk space in the root (/) directory
- At least 250 Mbytes of free disk space in the /usr directory
- At least 1 Gbyte of free disk space in the /var directory
- **For DMM only:** At least 3 Gbytes of free disk space in the /scs directory
- To create a custom partition on your disk drive, create the /usr/mgmt/var/tomcat4 directory and allocate it as much space as possible

The Sun Control Station software might affect other programs that are running on the server. The following happens when you install the Sun Control Station software:

- Installs Tomcat 4.x and uses that version
- Creates a Tomcat 4.x user and group, tomcat4
- Starts MySQL

## Patches

The current installation script only checks for the latest Solaris 9 patches. Go to the `sunsolve.sun.com` site and search for the latest CST 3.5.2 and Solaris patches. Download the required patches, any on which they depend, and install them.

The following 32-bit linker patches are required for each Solaris based monitored system proxy:

- Solaris 9 OS: Linker patch 112963-08 or higher
- Solaris 10 OS: Go to the SunSolve<sup>SM</sup> site at <http://sunsolve.sun.com> to download the latest patch

CST 3.5.2 requires the `/usr/lib/libCstd.so.1` file, which is standard in the Solaris 9 OS and the Solaris 10 OS.

## Web Browser Requirements

To manage the Sun Control Station application from the browser interface, you must enable cookies, cascading style sheets, and the JavaScript<sup>TM</sup> settings on your browser. These features are normally enabled by default.

The Sun Control Station application is best viewed in these browsers:

- Netscape<sup>TM</sup>, at least Version 6.0
- Mozilla<sup>TM</sup>
- Internet Explorer

## Ports

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**Note** – The server on which you install the Sun Control Station software must have a static IP address.

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These ports must be available for the Sun Control Station software. You can only modify port values that are described as being default values.

- **Apache:** inbound port 80
- **Control station browser interface:** inbound port 8080
- **SSL for Tomcat 4.x:** inbound port 8443
- **MySQL:** inbound port 3306
- **CST 3.5.2:**
  - **TCP:** inbound and outbound port 3742
  - **UDP:** default inbound and outbound ports are randomly assigned
- **DMM:** default inbound port 8000; default outbound port 443

- **Sun Net Connect 3.2 proxy:** outbound port 443
  - **Sun<sup>SM</sup> Connection Shared Shell:** outbound port 9004
  - **Sun Connection Shared Web:** default inbound port 7995; default outbound port 9004
- 

## Installed Software Components

The following components are included in the software and installed as part of the Sun Control Station product:

- Sun Control Station framework
- LPS module (on Solaris 9 OS only) and includes an installation of Sun Patch Manager 2.0
- CST 3.5.2 middleware server software
- DMM placeholder
- WBEM patch
- The following third-party software:
  - Apache Jakarta Tomcat 4.x (`tomcat4`), the servlet container used for Sun's Java<sup>TM</sup> Servlet and JavaServer Pages<sup>TM</sup> technologies
  - Perl

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# Preinstallation Checklist

Before you install the Sun Control Station software, complete the tasks in the following checklist:

**TABLE 1-1** Sun Control Station Preinstallation Checklist

- 
- Verify that your system meets the requirements listed in “[Dependencies, Requirements, and Limitations](#)” on page 2, including prerequisite software packages (SFWMysql, SFWgcmn, and SFWncur), and in “[System Requirements](#)” on page 3.
  - If you have the Sun Net Connect software or the CST agent installed on the system, uninstall that software before installing the Sun Control Station software.
    1. Log in to the monitored system as `root` and change to the following directory:

```
# cd /opt/SUNWsrsp/bn
```
    2. Type the following to run the uninstall script:

```
# ./UninstallNetConnect.003.00x.00x.sh
```

For example, to uninstall Sun Net Connect 3.2, type the following:

```
# ./UninstallNetConnect.003.002.000.sh
```
    3. If the Sun Net Connect installation script installed CST, remove this package:

```
# pkgrm SUNWcstu
```

If CST was not installed with Sun Net Connect, see the *Configuration and Service Tracker, Version 3.5.2, Installation and Administration Guide* for the steps to uninstall CST.

If you installed Sun Net Connect from the Solaris CD, see the *SRS Net Connect Solaris 9 9/04 Installation and Activation Guide* at <http://docs.sun.com/app/docs/doc/819-0617> or see the *Sun Remote Services Net Connect 3.1.1 Solaris 10 2/05 Installation and Activation Guide* at [.http://docs.sun.com/app/docs/doc/819-1074](http://docs.sun.com/app/docs/doc/819-1074).

If you installed Sun Net Connect with Java Enterprise System, see the *Sun Remote Services Net Connect Activation Guide* at <http://docs.sun.com/app/docs/doc/819-0619> or see the *Sun Remote Services Net Connect 3.1.1 Solaris 10 2/05 Activation Guide* at [.http://docs.sun.com/app/docs/doc/819-1073](http://docs.sun.com/app/docs/doc/819-1073).
  - Verify that the user account has a shell associated with it and that the user can interact with the `crontab` entries.
  - Verify that the `root` user owns the `/opt` directory.
-

# Installing the Sun Control Station CC Edition Software

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This chapter describes how to download and install the Sun Control Station software, and how to log in to the browser interface.

## ▼ How to Download and Install the Sun Control Station CC Edition Software



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**Caution** – You *must* install the Sun Control Station CC Edition software on a local file system of your server. You cannot install it on a remotely mounted file system.

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For information about how to download and install the optional Data Manager Module, see the *Sun Data Manager Module Installation and Administration Guide*.

### 1. Download the Sun Control Station software from the Sun Download Center.

- Solaris 9 OS: `pop-s9.tar.gz`
- Solaris 10 OS: `pop-s10.tar.gz`

### 2. As the `root` user, extract the software packages from the downloaded file.

```
# mkdir /tmp/pop
# cp pop-s9.tar.gz /tmp/pop
# cd /tmp/pop
# gzip -d pop-s9.tar.gz
# tar -xvf pop-s9.tar
```

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**Note** – You can use either `gzip` or `gunzip` to unzip the `tar.gz` files.

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3. If the prerequisite packages (SFWmysql, SFWgcmn, and SFWncur) are not already installed on the system, install them.

For software and installation requirements and prerequisites, see [“Dependencies, Requirements, and Limitations” on page 2](#).

4. Install the Sun Control Station software.

```
# cd /tmp/pop
# ./install.sh
```

See [“Installed Software Components” on page 5](#) for the list of software components that are installed.

5. If the WBEM patch is installed, reboot your system to successfully complete the installation.

Now you can log in to the Sun Control Station application. See [“How to Log in to the Sun Control Station Application” on page 8](#).

## ▼ How to Log in to the Sun Control Station Application

After you install the Sun Control Station software, you can access the application through the browser interface.

1. Open a browser window and type:

```
http://IP-address-of-server/
```

If you do not want to use the SSL connection, type the following URL:

```
http://IP-address-of-server:8080/sdui/
```

---

**Note** – If you get an error when you go to `http://host-name/`, go to `http://host-name:8080/sdui/` instead.

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The Login page appears.

2. Type the user name `admin` and the password `admin`.
3. Click **Login**.

The Sun Control Station CC Edition home page appears.

4. Change the `admin` password from the **Station Settings** menu the first time that you log in.

See the *Sun Control Station CC Edition Administration Guide*.

# Uninstalling the Sun Control Station CC Edition Software

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This chapter describes how to uninstall the Sun Control Station software.

## ▼ How to Uninstall Sun Control Station Software

Uninstalling the Sun Control Station software removes all of the control modules.

To uninstall individual Sun Control Station modules, see the *Sun Control Station CC Edition Administration Guide*.

1. **Log in to the system as the root user.**

2. **Change to the `/scs/uninstall` directory.**

3. **Run the `uninstall` script.**

```
# ./uninstall
```

To confirm that you want to proceed with the uninstallation process, type `Y` (yes). The default is `N` (no).

4. **(Optional) On Solaris 9 systems, you can uninstall the prerequisite packages for MySQL, Gcmn 1 GNU, and the new curses library.**

Type these commands:

```
# pkgrm SFWmysql
```

```
# pkgrm SFWncur
```

```
# pkgrm SFWgcmn
```

5. **(Optional) Remove the `tomcat4` user.**

```
# userdel -r tomcat4
```



## Troubleshooting Problems

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This chapter describes how to resolve issues that you might encounter after you install the Sun Control Station software. This information is provided for each issue:

- Description of the problem
- Cause of the problem, if known
- Workaround for the problem

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**Note** – In the Solaris 10 OS, Sun Net Connect only supports the global zone. You might experience Sun Net Connect problems if a local zone exists.

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### Cannot Restore Data From a Backup File

**Description:** You are unable to successfully restore the Sun Control Station data from a backup file. The following error messages appear:

```
ERROR: Unable to overwrite existing CST packages.  
Remove the packages and re-run pkgadd.  
Exiting...  
pkgadd: ERROR: request script did not complete successfully
```

**Cause:** The CST package, `SUNWcstv.pkg`, cannot be overwritten.

**Workaround:** Remove the CST module before restoring from the backup file.

### Cannot Execute `/scs/bin/bdsql`

**Description:** The following error is issued:

```
Cannot execute /scs/sbin/bdsql
```

**Workaround:** Run the uninstall script, and then rerun the install script.

## Cannot Access the Application From a Browser

**Description:** You are unable to access the Sun Control Station application from a browser window.

**Cause:** tomcat4 might not have started on the server.

**Workaround:** Do the following:

1. Use ssh to log in to the Sun Control Station server as the root user.
2. Stop and restart tomcat4.

```
# /etc/init.d/tomcat4 stop
# /etc/init.d/tomcat4 start
```
3. Verify that several Java processes are running.

```
# /bin/ps -ef | grep java
```
4. If no Java processes are running, verify that the owner and group permissions of the /var/tomcat4/logs/catalina.out file are both tomcat4.
5. If you need to change the permissions on this file, you must stop and restart tomcat4:

```
# /etc/init.d/tomcat4 stop
# /etc/init.d/tomcat4 start
```

## Tomcat Server Malfunction

**Description:** The tomcat server does not work properly.

**Cause:** The /var/lock/subsys/tomcat4 lock file exists.

**Workaround:** Do the following:

1. Use ssh to log in to the Sun Control Station server as the root user.
2. Remove the /var/lock/subsys/tomcat4 lock file if it exists.

```
# rm /var/lock/subsys/tomcat4
```
3. Stop and restart tomcat4.

```
# /etc/init.d/tomcat4 stop
# /etc/init.d/tomcat4 start
```