



# Solaris Container Manager 3.6 Release Notes

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Sun Microsystems, Inc.  
4150 Network Circle  
Santa Clara, CA 95054  
U.S.A.

Part No: 819-4097-10  
December 2005

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# Preface

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Solaris™ Container Manager 3.6 is an add-on software product to the Sun™ Management Center 3.6 release and is used for resource allocation and management. *Solaris Container Manager 3.6 Release Notes* contains runtime issues and bugs that were not available until immediately before the release of the Solaris Container Manager 3.6 software. These release notes are in printed form only.

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**Note** – The Solaris Container Manager 3.6 software runs on both the SPARC® and x86 platforms. The information in this document pertains to both platforms unless otherwise specified in a special chapter, section, note, bullet item, figure, table, or example.

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## Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris Container Manager 3.6 software.

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## Related Books

For information about installing or using Solaris Container Manager 3.6, see *Installing and Administering Solaris Container Manager 3.6*. You can also obtain help from the application by clicking the Help button in the upper-right corner of any window.

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## Using UNIX Commands

These notes do not contain information about basic UNIX<sup>®</sup> commands and procedures, such as shutting down the system, booting the system, or configuring devices.

See one or more of the following sources for this information:

- *Solaris Handbook for Sun Peripherals*
- Online documentation for the Solaris software environment (available from <http://docs.sun.com>)
- Other software documentation that you received with your system

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## Documentation, Support, and Training

Information about related Solaris Container Manager 3.6 topics is available in the documentation that is listed in the following table.

Sun Function	URL	Description
Documentation	<a href="http://www.sun.com/documentation/">http://www.sun.com/documentation/</a>	Download PDF and HTML documents, and order printed documents.
Support and Training	<a href="http://www.sun.com/supporttraining/">http://www.sun.com/supporttraining/</a>	Obtain technical support, download patches, and learn about Sun courses.

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## Typographic Conventions

The following table describes the typographic changes that are used in this book.

**TABLE P-1** Typographic Conventions

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name%</code> you have mail.
<b>AaBbCc123</b>	What you type, contrasted with onscreen computer output	<code>machine_name%</code> <b>su</b> Password:
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . Perform a <i>patch analysis</i> . Do <i>not</i> save the file. [Note that some emphasized items appear bold online.]

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## Shell Prompts in Command Examples

The following table shows the default system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

**TABLE P-2** Shell Prompts

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





## Installation Issues

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This chapter describes installation issues and bugs.

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**Note** – For this release of the Solaris Container Manager 3.6, the following browsers are supported:

- Internet Explorer 5.5 and above (only on Windows)
  - Mozilla 1.4 and above
  - FireFox 1.0 and above
  - Netscape™ 6.2 and above
- 

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## Issues You Need to Know About Before Installing Solaris Container Manager 3.6

This section contains information about preliminary tasks and the documentation for Solaris Container Manager 3.6 software.

### Installing Sun Web Console 2.2.3 Software

The Sun Web Console 2.2.3 software must be installed before installing Sun Management Center 3.6 or Solaris Container Manager 3.6. The Solaris Container Manager 3.6 graphical user interface (GUI) is browser based. To use the GUI, you must install the Sun Web Console 2.2.3 software on the Sun Management Center server layer. The Sun Web Console 2.2.3 software is included on the Sun Management Center 3.6 media and must be installed if you are running either the Solaris 8 or 9 Operating System.

By installing Sun Web Console 2.2.3 before installing Sun Management Center or Solaris Container Manager 3.6, you ensure the following:

- You have the correct version of the Tomcat server, 4.0.5.
- You have the correct version of the Java™ 2 Platform, Standard Edition (J2SE™ platform), 1.4.2 at minimum.

If an earlier version of the Tomcat server is currently installed, you need first to remove the corresponding software package.

The Sun Web Console software depends on, at minimum J2SE 1.4.2 software, which is included. If you have an older version of J2SE, the installation script prompts you to update the J2SE software.

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**Note** – If you have a beta version of Sun Web Console 2.2.3 already installed, you must uninstall Sun Web Console 2.2.3 first. For more information, see [“To Uninstall Sun Web Console” on page 11.](#)

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## ▼ To Install Sun Web Console From the Media

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**Note** – You must install the Sun Web Console software only in the default location.

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### Steps 1. Become superuser by typing:

```
% su -
```

### 2. If you have the Tomcat server already installed, check the version by typing:

```
# pkginfo -l SUNWtcatu
```

The version that is included with the Sun Web Console software is identified as 11.9.0,REV=2002.03.02.00.35.

### 3. If your version starts with 11.8.0 or lower, remove the Tomcat server by typing:

```
# pkgrm SUNWtcatu
```

The correct version is later installed as part of this procedure.

### 4. Insert the Sun Management Center 3.6 Media

### 5. Change directories to where the Sun Web Console software is located by typing:

```
# cd <DiskMountDir>/image/SunOS/sparc/Lockhart2.2.3/sparc
```

### 6. Set the JAVA\_HOME variable. For example, in the C shell, type:

```
# setenv JAVA_HOME /usr/j2se/bin
```

## 7. Install the software by typing:

```
# ./setup
```

- If the system has J2SE version 1.4.2 software installed, the installer automatically installs the Sun Web Console software. Wait until the installation is completed.
- If the system has a J2SE version lower than 1.4.2 installed, J2SE version 1.4.2 software is automatically installed along with the Sun Web Console software. Wait until the installation is completed.

## 8. At the end of installation, the following message is displayed:

```
Installation complete.  
Server not started! No management applications registered
```

This is a valid message.

## 9. Enable the automatic startup of Sun Web Console at reboot by typing:

```
# /usr/sbin/smcwebserver enable
```

## 10. Continue with the installation of the Sun Management Center 3.6 software.

For more information, see the following:

- *Sun Management Center 3.6 Installation and Configuration Guide*

## ▼ To Start Sun Web Console

After installation of all software is complete, you must start the Sun Web Console *before* you can use the Solaris Container Manager 3.6 GUI.

### Steps 1. Start a browser.

### 2. Go to the Sun Web Console [https://host\\_machine\\_name:6789](https://host_machine_name:6789)

The Sun Web Console login page appears.

## ▼ To Uninstall Sun Web Console

If you have an earlier version of Sun Web Console software on your system, you must uninstall Sun Web Console before installing the 2.2.3 version. If you want to remove the Sun Web Console software after removing the Solaris Container Manager 3.6 from your system, you can also use this procedure.

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**Note** – Make sure that you are not in the `/usr/lib/webconsole` directory or its subdirectories when you run `setup -u`, or `pkgrm` fails.

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**Steps** 1. **Become superuser by typing:**

```
% su -
```

2. **To remove the Sun Web Console software package, as superuser (su -) start the removal script by typing:**

```
# /usr/lib/webconsole/setup -u
```

3. **When the script has finished, you are prompted to remove the Tomcat server and Java 1.4.2 software. To keep this software, answer "No" to the following questions:**

```
If you have other work that requires use of the
Tomcat Servlet/JSP Container software, you may wish to
not delete it from your machine.
```

```
Do you want to delete it? [n]? n
```

```
If you have other work that requires use of the
Java 1.4.2 software, you may wish to not delete it
from your machine.
```

```
Do you want to delete it? [n]? n
```

## Runtime Issues

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This chapter describes runtime issues and bugs in the Solaris Container Manager 3.6 (Container Manager) software.

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### Container Manager Issues

These runtime issues might occur in the Solaris Container Manager 3.6 software.

#### CLI Installation of Solaris Container Manager 3.6 Is Not Translated

If you use the command line interface (CLI) version of the Solaris Container Manager 3.6 installation, it is only available in English. This version is not translated. The English language aspect does not affect the installation process or functionality.

**Workaround:** To perform the installation in your locale, use the GUI installation (`es-guiinst`) and setup (`es-guisetup`).

#### Utilization Graph Image Titles and Headings Appear in English

If you choose a locale other than English, the title and headings of the Utilization Graph image appear in English. These values are not localized.

## SPARC: Extended Accounting Feature Is Disabled in Solaris 8 Release

The Extended Accounting feature is disabled in Container Manager on systems that run the Solaris 8 OS. As a result, the Extended Accounting Data (Exacct) column of the CSV file for a container on a Solaris 8 system will be null.

## Some Projects in the `/etc/project` Database Might Not Be Discovered by Container Manager

If a project in an agent host's `/etc/project` database has the same project ID as a project in the Sun Management Center database but has a different project name, then the project will not be discovered by Container Manager. A unique project ID across all hosts in the same server context is a Container Manager requirement.

You should not use the `projadd` command to create projects. Use only Container Manager to manage projects.

**Workaround:** Delete the non-default project that was created by the `projadd` command from the agent host's `/etc/project` database and create the container by using the New Container wizard in Container Manager.

## Security Privilege Error Messages Are Incomplete

Error messages displayed during failure of creation, modification, or deletion of Zone, Pool, or Project are incomplete and does not provide enough details. Following are the error messages you might encounter:

- Cannot create the resource pool
- Cannot create the zone
- Cannot update the project, zone, or pool
- Cannot activate the container for valid user
- Cannot associate the container to the host

**Workaround:** If you encounter any of the above errors, refer to the points mentioned below. But first ensure that the user is a valid SunMC user and has the necessary administration privileges (part of `esadm`, `esdomadm` groups).

Ensure that the user is associated with the necessary profiles by running the following command:

```
$ profiles <username>
```

Following are the necessary profile:

- On Solaris 10 - Zone Management, Pool Management, Project Management

- On Solaris 9 - Pool Management, Project Management
- On Solaris 8 - Project Management

If you find the necessary profiles missing, run the following command (as the superuser) and modify the profiles associated with a user:

```
# usermod -P "<comma separated list of necessary profiles>" <username>
```

If any profile does not exist on the system, please add the missing entries in the format mentioned below to the `prof_attr` file in the `/etc/security` directory.

```
Pool Management::Resource pool management
profile:help=RtPoolMgmt.html
```

```
Project Management::Manage Solaris
projects:auths=solaris.project.read,solaris.project.write;
help=RtProjManagement.html
```

Run the following command to find if the user is a part of the local access user list for the SCM module.

```
<BASEDIR>/SUNWsymon/sbin/es-config -M scm-container -s
```

If user is not part of the access list, run the following command:

```
<BASEDIR>/SUNWsymon/sbin/es-config -M scm-container -l <user_name>
```

---

## Container Manager Bugs

These runtime bugs might occur in Solaris Container Manager 3.6 software.

### Agent Performance Becomes Degraded or Unresponsive (6247892)

An agent has crashed leaving `scm-container*` files in the `/var/opt/SUNWsymon/cfg/` directory. When the agent restarts, it might not perform in an optimal manner. This condition might identify itself by the following error message:

```
Insufficient security privilege to complete the operation.
```

You can determine the state of the processes on the agent by typing the following command:

```
% ps -eaf | grep esd
```

**Workaround:** To improve performance, type the following commands:

1. Become superuser.  

```
% su -
```
2. Stop the agent.  

```
# /opt/SUNWsymon/sbin/es-stop -a
```
3. Delete the state files.  

```
# rm /var/opt/SUNWsymon/cfg/scm-container*
```
4. Restart the agent.  

```
# /opt/SUNWsymon/sbin/es-start -a
```

## Java Web Console Does Not Restart After Reboot (6252233)

Following a server reboot, the Java Web Console does not start automatically.

To start the Java Web Console, type the following commands:

1. Become superuser.  

```
% su -
```

Type root password.
2. Restart the Java Web Console.  

```
# /usr/sbin/smcwebserver restart
```
3. Ensure that Java Web Console restarts in the future.  

```
# /usr/sbin/smcwebserver enable
```

**Workaround:** None.

## Zone Creation Fails When Invalid Locale Is Selected (6259233)

If an invalid locale is selected from the Locale drop-down menu in the New Zone wizard, zone creation fails. The Locale drop-down menu might contain invalid locale values.

To determine valid locales, go to “Supported Locales” in *International Language Environments Guide*.

**Workaround:** Choose a valid locale from the Locale drop-down menu in the New Zone wizard. If you are unsure of a locale value, select C for the English locale.



## Tool Tip Displayed Instead of Alarm Badge (6219617)

If an alarm condition exists, the tool tip of the alarm badge might appear instead of the alarm badge itself.

If you navigate to another pane, then return to the alarmed object's icon, the badge on the icon is correctly displayed.

**Workaround:** None.

## Exception Might Occur When Clicking the Browser Back Button (6241424)

When you click the browser back button, Container Manager might throw an exception. The browser back button is not supported in this release.

To recover from this exception, go to [https://server\\_name:6789/containers](https://server_name:6789/containers) and navigate to the appropriate page.

**Workaround:** None.

## Some Processes Owned by User nobody Are Not Moved to a Container (5011290)

On the Solaris 9 Operating System, some processes, for example, the Java™ application run by user *nobody*, are not moved to a container because of a bug in the `newtask` command.

**Workaround:** Start the applications that are run by user *nobody* in the appropriate container by using the `newtask` command.

```
# /usr/bin/newtask -p projectname command
```

*projectname* is the project in which the application is to be started and *command* is the command to start the application.

For more information, see the `newtask(1)` man page.

## Using `nscd` as a Match Expression Causes Host to Hang (4975191)

If you use one of the following match expressions when creating a container definition and subsequently activate it, the agent host hangs:

- n
- ns
- nsc
- nscd

**Workaround:** Start the `nscd` process in the appropriate project by using the `newtask` command:

```
# /usr/bin/newtask -p projectname command
```

*projectname* is the project in which the application is to be started and *command* is the command to start the application.

For more information, see the `newtask(1)` man page.

## Agent Hosts Missing After Reinstalling or Running Setup of Server Layer (4964051)

If you plan to reinstall the Solaris Container Manager 3.6 software on the server layer, be sure to save the data when uninstalling. Similarly, if you run setup again on the server layer, be sure to answer No when asked if you want to recreate the database. Otherwise, agent hosts previously discovered might be missing from the database if the data was not saved and you then reinstall or set up again on the server layer.

**Workaround:** If hosts are missing after you reinstall or rerun setup, restart the Sun Management Center agent on the hosts by doing the following procedure:

1. Log in to agent system.
2. Become superuser.  
% `su -`
3. Stop the Sun Management Center agent by typing:  
# `/opt/SUNWsymon/sbin/es-stop -a`
4. Start the Sun Management Center agent by typing:  
# `/opt/SUNWsymon/sbin/es-start -a`

## Documentation Issues

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This chapter describes known documentation problems.

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### Solaris Container Manager 3.6 Manuals Are Not Available on the Media

The documentation for Solaris Container Manager 3.6 is *not* available on the software CD. The English documents and localized documents are available at <http://docs.sun.com>.

