



Solaris Container Manager 1.1 Release Notes

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Preface

Solaris™ Container Manager 1.1 is an add-on software product to the Sun™ Management Center 3.5 Update 1b release and is used for resource allocation and management. *Solaris Container Manager 1.1 Release Notes* contains runtime issues and bugs that were not available until immediately before the release of the Solaris Container Manager 1.1 software. These release notes are in printed form only.

Note – The Solaris Container Manager 1.1 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, bulleted item, figure, table, or example.

Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris Container Manager 1.1 software.

Related Books

For information about installing or using Solaris Container Manager 1.1, see *Installing and Administering Solaris Container Manager 1.1*. You can also obtain help from the application by clicking the Help button in the upper-right corner of any window.

Using UNIX Commands

These notes do not contain information about basic UNIX[®] 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

Documentation, Support, and Training

Information about related Solaris Container Manager 1.1 topics is available in the documentation that is listed in the following table.

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

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.
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name%</code> su 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.]

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

This chapter describes installation issues and bugs.

Note – For this release of the Solaris Container Manager 1.1, use one of the following browsers:

- Netscape™ 7.0 software, at minimum
 - Internet Explorer 5.0 software, at minimum
-

Issues You Need to Know About Before Installing Solaris Container Manager 1.1

This section contains information about preliminary tasks and the documentation for Solaris Container Manager 1.1 software.

usermod Does Not Update the `/etc/user_attr` File for Privileged Users

During the installation of Container Manager, the `/etc/user_attr` file is updated by the `usermod` command. When you attempt to modify the profile of the users whose IDs were entered during the setup phase of Container Manager, the following message might be displayed:

```
UX: /usr/sbin/usermod: ERROR: user_name is in use. Cannot change it.
```

If you encounter any of the following errors, update the `/etc/user_attr` file manually to set the correct profile.

- 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

On a S10 system, the contents of the `/etc/user_attr` file must look like the following:

```
username:::auths=auths;profiles=Pool Management,Zone Management,
Project Management,other_profiles;other_attributes
```

On a S9 system, the contents of the `/etc/user_attr` file must look like the following:

```
username:::auths=auths;profiles=Pool Management,Project Management,
other_profiles;other_attributes
```

On a S8 system, the contents of the `/etc/user_attr` file must look like the following:

```
username:::auths=auths;profiles=Project Management,other_profiles;other_attributes
```

To check whether the required profiles exist on the host or not, check the contents of the `/etc/security/prof_attr` file. This file must contain the required profiles according to the version of the Operating System (OS).

If the required profiles are not present, run the `/opt/SUNWsymon/addons/SCM/sbin/scm-poolprof-script.sh` file to create the required profiles. `/opt` is the directory in which Container Manager is installed. To run this script, the `JAVA_HOME` environment variable must have been set to `/usr/j2se`, or Java must have been installed in `/usr/java`.

Installing Sun Web Console 2.0 Software

The Sun Web Console 2.0 software must be installed before installing Sun Management Center 3.5 Update 1b or Solaris Container Manager 1.1. The Solaris Container Manager 1.1 graphical user interface (GUI) is browser based. To use the GUI, you must install the Sun Web Console 2.0 software on the Sun Management Center server layer. The Sun Web Console 2.0 software is included on the Sun Management Center 3.5 Update 1b CD 2 of 2 and must be installed if you are running either the Solaris 8 or 9 Operating System.

By installing Sun Web Console 2.0 before installing Sun Management Center or Solaris Container Manager 1.1, 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.

Note – If you have a beta version of Sun Web Console 2.0 already installed, you must uninstall Sun Web Console 2.0 first. For more information, see [“To Uninstall Sun Web Console” on page 14.](#)

▼ To Install Sun Web Console From the CD

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

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 3.5 Update 1b CD 2 of 2.

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

```
# cd /cdrom/cdrom0/image/Lockhart2.2.3
```

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 3.5 Update 1b software.

For more information, see the following:

- *Sun Management Center 3.5 Installation and Configuration Guide*
- *Sun Management Center 3.5 Update 1 Supplement*

▼ 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 1.1 GUI.

Steps 1. **Start a browser.**

2. **Go to the Sun Web Console `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 2.0 version. If you want to remove the Sun Web Console software after removing the Solaris Container Manager 1.1 from your system, you can also use this procedure.

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

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
```

Installed Documentation Does Not Contain Solaris Container Manager 1.1 Manuals

When you install the documentation on the Sun Management Center 3.5 Update 1b CD image, the Solaris Container Manager 1.1 manuals are not included.

The English language manuals are available at <http://docs.sun.com/apps/doc/coll/810.6>.

To obtain the manuals in French, Traditional Chinese, Simplified Chinese, Japanese, or Korean, go to <http://docs.sun.com>. Click the appropriate language button in the upper-left corner of the page and type the search keywords “Solaris Container Manager 1.1.”

Container Manager Bugs

The following bugs might occur during the installation of Solaris Container Manager 1.1 software.

Agent Update for Container Manager Does Not Work on Solaris 10 Hosts (6268435)

If you used the Agent Update feature to update a Solaris 10 host with the Container Manager add-on, the update did not work.

To correct this situation, uninstall Container Manager and reinstall it by using the `es-inst` or `es-guinst` command.

Workaround: To prevent this situation, perform one of the following procedures:

- Do not use the Agent Update feature on a Solaris 10 host.
- Use the `es-makeagent` command.

For additional information, see “Creating Agent Installation and Update Images” in *Sun Management Center 3.5 Installation and Configuration Guide*.

Erroneous Messages Displayed at End of Server Installation (6251360)

During the installation of the Server component, the following messages might be displayed if non-global zones already exist:

```
Booting local zone <abcd> for patch check...
## waiting for zone <abcd> to enter single user mode...
## waiting for zone <abcd> to enter single user mode...
## waiting for zone <abcd> to enter single user mode...
Restoring state for local zone <abcd>...
```

abcd is the name of the non-global zone.

Ignore these messages.

Workaround: None.

Runtime Issues

This chapter describes runtime issues and bugs in the Solaris Container Manager 1.1 (Container Manager) software.

Container Manager Issues

These runtime issues might occur in the Solaris Container Manager 1.1 software.

CLI Installation of Solaris Container Manager 1.1 Is Not Translated

If you use the command line interface (CLI) version of the Solaris Container Manager 1.1 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`).

Container Name Character Counts Disagree in New Container Wizard

If you reference the Help in the New Container wizard for the Name field, the maximum character count is 64. This count is incorrect. The maximum number of characters for the Name field is 32, as noted in the field help and the error message.

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 nondefault 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.

Container Manager Bugs

These runtime bugs might occur in Solaris Container Manager 1.1 software.

Unselected Processes Move to New Project (6268412)

When you move processes by using the Move Processes feature, unselected processes might also be moved. Hence, do not use the Move button on the Processes tab.

Workaround: To ensure that processes are not inadvertently moved, perform the following steps:

1. Become superuser.
2. Move processes to the correct project by using the following command:

```
% newtask -c <pid>
```

Performance Degrades When Alarms Are Present (6255145)

If an alarm condition exists, performance might be degraded. To remedy this situation, perform one of the following:

- Manage alarms with Sun Management Center 3.5 Update 1b. For additional information, see Chapter 16, “Managing Alarms Using the Web Console,” in *Sun Management Center 3.5 User’s Guide*.
- Modify the alarm criteria to eliminate the alarm. For additional information, see Chapter 7, “Managing Alarms,” in *Installing and Administering Solaris Container Manager 1.1*.

Incorrect Error Message When Agent Moved to Different Server Context (5034900)

If an object on an agent which is now in a different server context is accessed, the following error message is displayed:

```
There was an error while retrieving the Container data.
```

Choose one of the following actions:

- Return the agent to its original server context
- Delete the agent from the old server’s topology

Workaround: None.

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.

Cumulative Utilization Graphs Do Not Display for Particular Object and Time Interval Combinations (6256467)

If you select the Cumulative Utilization by Object option, graphs do not display for the following objects and time intervals:

- Project object with Last Week time interval chosen
- All objects with Last Month time interval chosen

Workaround: None.

Updated Resource Change Job Fails (6258383)

A Resource Change Job has been previously scheduled, executed, and completed normally. If you update the Resource Change Job, the job fails.

Workaround: Instead of updating the Resource Change Job, delete it and create a new job.

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.

Application Error Occurs When Starting Wizard After Clicking Breadcrumb (5038524)

If you use a breadcrumb to navigate to any pane and then start a wizard, an Application Error occurs.

Workaround: Do not start a wizard immediately after clicking a breadcrumb.

Action Buttons Are Not Being Activated After Change in Zone State (6247882)

You have selected a zone and clicked one of the action buttons at the top of the table. Hereafter, the action buttons might not be correctly activated relative to the zone state.

To ensure that the action buttons are properly activated, navigate to another pane and return to the Zones table.

Workaround: None.

Zones Table Is Not Immediately Updated When Zone Is Deleted (6247898)

If you delete a zone, the row in the Zones table is not immediately deleted. The Zone entry in the Zones table is not removed until Zone deletion has been completed. This process might take a few minutes.

To view an updated Zones table, perform one of the following steps:

- Navigate to another pane and return to the Zones table.
- Click one of the action buttons at the top of the table.

Workaround: None.

Resource Pools With Associated Zones Can Be Deleted (6240756)

If you attempt to delete a resource pool that contains zones, the resource pool is deleted and the zones are moved to the `pool_default` resource pool.

Workaround: None.

Project Status Might Not Update in the Projects Table (6252494)

If the project status is changed, the Status field in the Projects table might not update with the correct status.

To display the correct status, navigate to another pane and return to the Projects table.

Note – Do not use the browser Reload button to refresh the Projects table. This behavior is not supported.

Workaround: None.

Updated Resource Change Job Fails (6258383)

A Resource Change Job has been previously scheduled, executed, and completed normally. If you update the Resource Change Job, the job fails.

Workaround: Instead of updating the Resource Change Job, delete it and create a new job.

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.

Additional Attributes Might Not Be Displayed in Zone - Properties Pane (6247877)

If you navigate to the Zone - Properties pane, the Additional Attributes values might not be displayed.

If you encounter this situation, leave this pane and navigate back to the Zone by using the links in the left pane and click the Properties tab.

Workaround: None.

Resource Pool Creation Fails When the First Character of the Name Is Not Alphabetic (6253063)

If you attempt to create a resource pool with a name that starts with any character other than an alphabetic, creation fails.

If the host does not appear to be respond after a failure, you might need to restart the host:

1. Become superuser on the host.
`% su -`
2. Stop and restart the host.
`# /opt/SUNWsymon/sbin/es-stop -a`
`# /opt/SUNWsymon/sbin/es-start -a`

Valid characters are the following:

- Alphabetic (A–Z, a–z)
- Numeric (0–9)
- Hyphen (-)
- Underscore (_)
- Period (.)

Workaround: Begin all resource pool names with an alphabetic character.

Project Status Might Not Update in the Status Column of the Projects Table (6252494)

If the project status is changed, the Status field in the Projects table might not update with the correct status.

To display the correct status, navigate to another pane and return to the Projects table. Using the Reload button is not supported.

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 and navigate to the appropriate page.

Workaround: None.

Existing Projects on Solaris 8 OS Might Be Discovered as Application-Based Container (5026619)

On a Solaris 8 system with Container Manager installed, projects might exist in the `/etc/project` file with project names that do not conform with the naming convention (`user.username`). These project are discovered as an application-type container. This assignment can be confirmed in the properties sheet for the container.

If an Inode of `username` and a project name of `user.username` exist for this project, the container is identified as a user-based container. The container then functions normally in Container Manager.

If no Inode is associated with this project, you can deactivate the project. The entry in the `/etc/project` database is deleted. If you subsequently attempt to activate the container, the following error message is displayed:

```
There was an error while activating the Container.  
Container activation failed.
```

Workaround: To re-create the container definition through Container Manager, perform the following steps:

1. Delete the container definition.
2. Re-create the container definition through Container Manager.

Utilization Graphs Are Not Displayed Correctly (5020762)

Occasionally, utilization graphs are not displayed correctly. All data points relative to the x-axis appear as a single line on the y-axis.

Workaround: To reload the frame in which the utilization graph appears, perform one of the following workarounds:

- Netscape™ 4.79 software:
 1. In the frame in which the utilization graph is displayed, press mouse button 3.
 2. Choose Reload Frame from the pop-up menu.
- Netscape 6 software, at minimum:
 1. In the frame in which the utilization graph is displayed, click mouse button 3.
 2. Choose This Frame from the pop-up menu.
 3. Choose Reload Frame from the submenu.
- Internet Explorer 5.0 software, at minimum:
 1. In the frame in which the utilization graph is displayed, click mouse button 3.
 2. Choose Refresh from the pop-up menu.

Note – Do not click the Reload or Refresh button in the browser’s toolbar. You might return to the Hosts navigation window.

SPARC: Container Manager Agent Module Causes Memory Leak on Solaris 8 (4982743)

When the Container Manager module is loaded, the module refreshes the container table by reading the `/etc/project` database. On agent hosts that run the Solaris 8 OS, a memory leak occurs because of a bug in the APIs of the `libproject` library.

Workaround: To resolve the memory leak problem, perform one of the following workarounds:

- For a permanent solution, install the following patches:

```
108528-29 108987-13 108993-33 109147-28 111023-03 111111-03  
111317-05 112396-02 113648-03 115827-01 116602-01
```

- To temporarily fix the problem, edit the `/etc/nsswitch.conf` file and remove `nis` from the project line. The revised project line should resemble the following example:

```
project: files
```

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.

Help Is Not Context Sensitive (4970176)

Clicking the Help button displays the Help Table of Contents. Context-sensitive help is not currently available.

Workaround: Use one of the following options to access Help for a specific panel:

- Each panel contains inline help immediately below the page title. Click the link following the inline help to open the Help window for this panel.
- Use the Table of Contents to access the Help for a specific panel. The naming convention of the links within the Table of Contents is based on the page title. For example, to view the Help window for the *Host and Groups* panel, click the *About Host and Groups* link in the Table of Contents.

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 1.1 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 re-create 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

This chapter describes known documentation problems.

Installing and Administering Solaris Container Manager 1.1

This section describes corrections to specific chapters in the Installing and Administering Solaris Container Manager 1.1 book.

Installing At the Command Line

Disregard the information in the second bullet point under “The Container Manager software can be installed at the following times:” in the Installing Container Manager Software section.

Creating Reports and Using Extended Accounting Data

The description of the resource utilization graphs report for Container is incorrect. The corrected version follows:

Container Data is represented as a percentage of the resource reservations for minimum CPU and memory cap for all active containers. This percentage compares the actual resources used to the resources reserved.

Managing Projects

The second paragraph under the heading of Inactive Project in the Project States section is partially incorrect. The corrected version follows:

All data collected about the project's use of resources while it was active is preserved in the database. However, you cannot request a utilization report for an inactive project.