Sun™ Management Center 2.1.1 Software Release Notes

THE NETWORK IS THE COMPUTER™

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Sun Management Center 2.1.1 Software Release Notes

Note – For the latest information on this product, go to the Sun™ Management Center web site at `http://www.sun.com/sunmanagementcenter`.

Note – The information contained in the *Sun Management Center 2.1 Software User's Guide* is valid for the Sun Management Center 2.1.1 release. Refer to this manual and the Sun Management Center supplement for your hardware platform for complete information about the 2.1.1 release.

These release notes cover the following topics:

- Getting Started
- Sun Management Center Web Site
- System Requirements
- Supported Operating Environments
- Protecting Customized Scripts
- Upgrading to Sun Management Center 2.1.1 Software
- Major Changes from Sun Enterprise SyMON™ 2.0.1 Software to Sun Management Center 2.1.1 Software
- Required Patches
- Online Help Corrections
- Known Limitations to this Version
- Known Bugs

Note – For installation instructions, refer to the *Sun Management Center 2.1 Software User's Guide* and the *Sun Management Center 2.1 Supplement* for your hardware platform.

Before installing Sun Management Center software on your system, read the `INSTALL.README` and any additional `README` file(s) that are appropriate for your hardware platform. The `README` file(s) (on the Sun Management Center 2.1.1 CD and the Sun Management Center web site) provide(s) information that will help you during the installation process.

Getting Started

The following table describes which sections of this document to read, depending on whether you are upgrading to Sun Management Center 2.1.1 software, or installing Sun Management Center software for the first time.

TABLE 1 Sections of these Release Notes for Upgrading or Installing for the First Time

If you are upgrading, read:	If you are installing for the first time, read:
Sun Management Center Web Site	Sun Management Center Web Site
System Requirements	System Requirements
Supported Operating Environments	Supported Operating Environments
Protecting Customized Scripts	
Upgrading to Sun Management Center 2.1.1 Software	
Major Changes from Sun Enterprise SyMON™ 2.0.1 Software to Sun Management Center 2.1.1 Software	
Required Patches	Required Patches
Online Help Corrections	Online Help Corrections
Known Limitations to this Version	Known Limitations to this Version
Known Bugs	Known Bugs

Sun Management Center Web Site

For the latest information, go to the Sun Management Center web site:

```
http://www.sun.com/sunmanagementcenter
```

The *Sun Management Center Configuration and Deployment Guide* contains important information about supported hardware platforms. The web site also contains the latest information on this product.

System Requirements

Note – You must have at least 128 Mbytes of RAM available to run the Sun Management Center console on your system.

System requirements for installing Sun Management Center software are documented in the *Sun Management Center Configuration and Deployment Guide*, which is available on the Sun Management Center web site. Refer to that document for more information.

Supported Operating Environments

The following operating environments are supported with the Sun Management Center 2.1.1 product:

- Solaris™ 2.5.1 (agent-only)
- Solaris 2.6 or subsequent compatible versions
- Solaris 7 (32-bit and 64-bit modes)
- Solaris 8
- Microsoft Windows NT Service Pack 4 (console-only)
- Microsoft Windows 95 and 98 (console-only)

Note – Sun Management Center software is supported only on Solaris SPARC™ Platform Edition systems, not on Solaris Intel Platform Edition systems.

Protecting Customized Scripts

If you customized the `email.sh` script that Sun Management Center software uses to send email notification of alarm conditions, that script will be overwritten when you upgrade Sun Management Center software to version 2.1.1.

To avoid overwriting the custom modified email script, rename the script. Here is an example with the name “Edith.”

```
# mv /var/opt/SUNWsymon/bin/email.sh /var/opt/SUNWsymon/bin/edithemail.sh
```

Upgrading to Sun Management Center 2.1.1 Software

For information on upgrading to Sun Management Center 2.1.1 software, refer to Chapters 2 and 3 of the *Sun Management Center 2.1 Software User’s Guide* and the *Sun Management Center 2.1 Supplement* for your hardware platform.

Before installing Sun Management Center software on your system, read the `INSTALL.README` and any additional `README` file(s) that are appropriate for your hardware platform. The `README` file(s) (on the Sun Management Center 2.1.1 CD and the Sun Management Center web site) provide(s) information that will help you during the installation process.

Caution – If you are currently using Sun Management Center software and are planning to upgrade to the Solaris 8 operating environment, then you *must upgrade* your Sun Management Center software to the 2.1.1 release.

Major Changes from Sun Enterprise SyMON™ 2.0.1 Software to Sun Management Center 2.1.1 Software

The following two tables list the changes that have been made in Sun Management Center version 2.1.1.

TABLE 2 lists the major changes between Sun Enterprise SyMON 2.0.1 software and Sun Management Center 2.1 software while TABLE 3 lists the major changes between the 2.1 and 2.1.1 releases.

Major Changes from Sun Enterprise SyMON™ 2.0.1 Software to Sun Management Center 2.1 Software

TABLE 2 Major Changes to Sun Management Center Software in Version 2.1

Feature	Description of Change in Version 2.1	Chapter of 2.1 User's Guide
Name change	The name changed from Sun Enterprise SyMON software to Sun Management Center software.	Throughout the document
New icon	The new Sun Management Center icon replaces old Sun Enterprise SyMON icon.	Throughout the document
New web site	`http://www.sun.com/sunmanagementcenter`	Throughout the document
Addition of custom alarm script	Enables you to designate a custom action when an alarm condition occurs.	Chapter 10
Add-row feature enhanced	The add-row feature has been enhanced to enable you to add a directory for the Directory Size Monitoring module and to add a printer for the Print Spooler module.	Chapter 9
New browser tabs in Details window	Tab names changed - the Configuration tab is now labeled Hardware, and functions on the Processes tab are moved under the Applications tab; the selected tab displays in a light color, the nonselected tabs display in a dark color.	Chapters 8 and 14

TABLE 2 Major Changes to Sun Management Center Software in Version 2.1 *(Continued)*

Feature	Description of Change in Version 2.1	Chapter of 2.1 User's Guide
New applications tab in Details window	A new tab has been added. You can display information about processes running on the host. If you have installed custom or third-party applications, the entries for the application(s) display below the View Processes entry. Select an application and the application is displayed in the right side of the window.	Chapter 14
Online help now viewed in Netscape™ browser	The documentation is now viewable using Netscape Navigator™.	Not applicable
Can customize the Tools pulldown menu in the main console window	If you have installed external user applications such as Telnet or File Transfer Protocol (FTP), they can be displayed as a menu item on the Tools Menu, and can be launched from this menu. The selected application is displayed in a separate window.	Chapter 7, Appendix B
New information on increasing memory size	Some configurations require increased memory size for the console and server. The documentation now describes how to increase memory size.	Chapter 3
Can now use Sun MIBs in a third-party application	The documentation now describes how to use the Sun Management Center SNMP Management Information Bases (MIBs) in a third party management station.	Appendix B
Relocatable package location	Sun Management Center software can now be installed in any location on your system where the minimum required disk space is available.	Chapter 3

Major Changes from Sun Management Center 2.1 Software to Sun Management Center 2.1.1 Software

TABLE 3 Major Changes to Sun Management Center Software in Version 2.1.1

Feature	Description of Change in Version 2.1.1
Operating system compatibility	Sun Management Center 2.1.1 is compatible with the Solaris 8 operating environment.
Enhanced tables	The display of information in tables has been enhanced to allow more information to be viewed. Scroll bars have been added to allow vertical and horizontal scrolling in tables.
Computer Associates Unicenter TNG 2.2 Integration Package	This integration package sets up a bridge between Sun Management Center 2.1 and 2.1.1 software releases and CA Unicenter TNG Framework version 2.2. The integration provides alarm forwarding and translation, Sun Management Center agent module status, and the ability to launch the Sun Management Center Host Details Window from the Unicenter TNG console. This integration package is currently available only at the Sun Management Center website: `http://www.sun.com/sunmanagementcenter`.

Required Patches

For patch information specific to your hardware, refer to the Sun Management Center 2.1 supplement for your hardware platform.

There are some patches that are automatically installed when you install Sun Management Center 2.1.1 software.

TABLE 4 Required Patches

Operating Environment	Patches
Solaris 2.6 operating environment	Patches 105181-15, 105210-19, 105284-25, 105490-07, 105568-13, 105633-21, 105669-07, and 106040-12
Solaris 7 operating environment	Patches 106980-05, 107078-10, 107607-01, and 107636-01

Online Help Corrections

This section describes errors in the online help that were detected too late for correction in the final version of the documentation.

- In Chapter 5, “Objects,” there is an error in Step 4 of the procedure called ”To Create a Node.” The first sentence in this step reads “The questions in the lower half of the window vary with the agent or monitor that you selected in Step 4a, above.” This sentence *should* read “The questions in the lower half of the window vary with the agent or monitor that you selected in Step 3a, above.”
- In Chapter 8, “Browser,” there is a section called “Browser Tab.” In the third paragraph of this section, the last sentence refers to “MIB-II Instrumentation.” This reference should refer instead to Simple MIB-II.
- In Chapter 9, “Monitoring and Graphing Data Properties,” there is a procedure called “To Add a Printer.” Step 1 should read as follows:

1. **In the Browser Details window, double-click on the Local Applications icon in the hierarchy (tree) view.**

   The local applications modules are displayed in both the hierarchy and contents views.

- In Chapter 10, “Attribute Editor,” there is a procedure called “To Create an Alarm.” See Step 9 of this procedure. The first sentence following the bulleted list should read as follows:

  “After some time, the Load Average over the Last 5 Minutes data field in the table turns red.”

- In Chapter 11, “Time Editor,” see Figure 11-13. The callout for this figure should read as follows:

  “Edit this field to select a range of days for the history interval.”

Known Limitations to this Version

Note – See your hardware platform supplement and the Sun Management Center web site for the latest information on architecture-specific known limitations. The web site is `http://www.sun.com/sunmanagementcenter`.

Here are the known limitations of the 2.1.1 version of Sun Management Center software:

- Config-Reader Module Support of Storage Enclosure Devices
- Sun Management Center Server and Console Heap Configurations for Large Server Platforms
- File System Usage Configurations from Sun Enterprise SyMON 2.0 Software are Obsolete
- Kernel Reader Default Alarm Thresholds

Config-Reader Module Support of Storage Enclosure Devices

Note – Different versions of the Config-Reader module are required to support the various hardware platform architectures. Consult your Sun Management Center hardware platform supplement for additional details.

Except for the Sun StorEdge™ A5*x*00 storage enclosure, storage enclosure devices are not supported by the Sun Management Center Config-Reader module. In addition, not all hardware platform Config-Reader modules support Sun StorEdge A5*x*00 enclosures.

Storage enclosures such as the Sun StorEdge A3500 enclosure, that present pseudo disk devices to the system, are not represented in the Config-Reader module nor are the disks displayed in the Config-Reader Disk Devices table.

If a storage enclosure is not supported, but the disks are presented to the system as discrete devices (such as `sd` or `ssd` disks), the storage enclosure disks display in the Config-Reader Disk Devices table.

Sun Management Center Server and Console Heap Configurations for Large Server Platforms

Sun Management Center monitoring of servers with large hardware configurations may need larger default heap sizes for the Sun Management Center server and console processes. For example, an increase in the default heap size may be needed if monitoring a server with greater than 1000 disks.

A symptom of this problem occurs when requesting to view the disk table through the Browser tab in the Details window. The console pauses for a while, attempting to gather the disk information, and then no data is displayed.

In this situation, Sun Management Center server errors are logged to the server log file (`/var/opt/SUNWsymon/log/server.log`) and console errors are logged to the Sun Management Center-Console Messages under the File selection of the Sun Management Center console.

Note – To read the `/var/opt/SUNWsymon/log/server.log` file, use the `es-run` interface with the `ccat` command.

For example:

```
# /opt/SUNWsymon/sbin/es-run/ccat /var/opt/SUNWsymon/log/server.log
```

An error message similar to the following may be displayed:

```
Client callback failed: java.rmi.ServerError: Server Error;
nested exception is:

          Java.Lang.Outofmemoryerror
```

To resolve this problem, see “To Resolve a Hanging Main Console Window” in Appendix B of the *Sun Management Center 2.1 Software User’s Guide*.

File System Usage Configurations from Sun Enterprise SyMON 2.0 Software are Obsolete

Support for `vxfs` file systems has been added to Sun Management Center software. This support resulted in a change to the kernel-reader defaults file `/opt/SUNWsymon/modules/cfg/kernel-reader-d.def` file) that makes file system usage configurations from Sun Enterprise SyMON 2.0 software obsolete. If you are upgrading to Sun Management Center 2.1.1 software from Sun Enterprise SyMON 2.0 software and have defined thresholds for File System Usage, you will need to redefine those thresholds.

Kernel Reader Default Alarm Thresholds

Kernel Reader default alarm thresholds for file systems mounted on `/export` do not use the normal default values for Percent Used (98% critical, 90% alert). Instead the default alarm thresholds are, 98% critical, 10% alert, and 5% info.

Known Bugs

Note – See your hardware platform supplement and the Sun Management Center web site for the latest information on architecture-specific known bugs. The web site is `http://www.sun.com/sunmanagementcenter`.

This is a list of known problems in the Sun Management Center 2.1.1 release. The list includes a workaround if any is available.

==========

Bug Id: 4194821

Bug/Rfe: Bug

Public Summary: On Solaris 7 (the 64-bit version), the “address” column in the Solaris Process Details module contains all 0 values. It should actually display similar to the following:

`30001d50ae8`

Workaround: None available at this time.

==========

Bug Id: 4204845

Bug/Rfe: Bug

Public Summary: When you display the Sun Management Center console window on another machine using `xhost`, the performance is slow. Although seen in the console, the bug is not caused by the Sun Management Center software.

Workaround: None available at this time.

==========

Bug Id: 4237987

Bug/Rfe: Bug

Public Summary: The log scanner does not take into effect the “last message repeated” function of `syslog`. This can cause an under-reporting of errors.

Here is an example of a message that came through the /var/adm/messages file:

```
Mar 11 13:55:40 owey su: 'su root' failed for cjr on /dev/pts/70
Mar 11 13:56:15 owey last message repeated 2 times
```

There should have been three matches for this; instead there was only one.

Workaround: None available at this time.

==========

Bug Id: 4238087

Bug/Rfe: Bug

Public Summary: The time it takes for the Log View GUI to display is dependent on the size of the /var/adm/messages file.

Workaround: None available at this time.

==========

Bud Id: 4240227

Bug/Rfe: Bug

Public Summary: If the df command returns an error, the kernel reader gets a black star alarm. Here is an example of an alarm which can cause the failure:

```
phys-ha1stokeb# df -g > /dev/null
df: cannot statvfs /mail/spool: I/O error
```

Here is the alarm message:

```
mount point index failed to update
```

This also seems to cause problems for the cluster if the module tries to update when a cluster switchover is happening.

Workaround: None available at this time. The root cause of this bug is bug 4240225. Track bug 4240225 for a resolution.

==========

Bud Id: 4269113

Bug/Rfe: Bug

Public Summary: A non-harmful message

“CvHierarchyManager.receiveDataRequestError - Received children data exception for parent node xxx:com.sun.symon.base.server.receptors.rmi.RMIResponseException: SNMP request returned error status 5 (general error)”

is displayed in the Sun Management Center Console Messages window every 2 minutes. This message is caused by the deletion of a non-empty group, which is expanded in the topology Hierarchy tree. Restarting the main console gets rid of this message.

Workaround: None available at this time.

==========

Bug Id: 4276633

Bug/Rfe: Bug

Public Summary: After posting the Sun Management Center main console window, select any agent machine and move the cursor. You will see that it shows the image of the selected item.

The same thing occurs in the View Log tab. After you select View Log, post the Filter or Monitor window. If you have posted the Filter window, then click the Advanced button. It will show two options, the Forward button and the Backward button. When you try to select the option button that was not selected, you will notice that it does not allow you to select the (non-selected) button.

Note – This happens only on Microsoft Windows 98 machines.

Workaround: None available at this time.

==========

Bug Id: 4278950

Bug/Rfe: Bug

Public Summary: You are sometimes unable to re-size columns from the extreme right. (Note: This is not a Sun Management Center bug.)

Workaround: First, resize the column to the left, and then move it to the right.

==========

Bug Id: 4280209

Bug/Rfe: Bug

Public Summary: This is a compatibility problem between the 2.1 or 2.1.1 server and the 2.0.1 console. The bug occurs under these circumstances.

- Select a domain and press the Go To button.
- Push the Close button.

The console crashes after you selected the initial domain. Error messages display in the window where the console was started.

Workaround: None available at this time.

==========

Bug Id: 4281592

Bug/Rfe: Bug

Platforms Affected: Midrange Server and Workgroup Server

Public Summary: The physical view does not report the number of disk drives correctly if some of the drives are attached to the rear of a Sun StorEdge A5000, 5001 or 5002 disk storage unit.

Workaround: None available at this time.

==========

Bug Id: 4285052

Bug/Rfe: Bug

Platforms Affected: Midrange Server and Workgroup Server

Public Summary: The Sun Management Center agent or agent Config-Reader subprocess core dumps on a system with an empty Sun StorEdge A5*x*00 disk storage array.

Workaround: None available at this time.

==========

Bug Id: 4285592

Bug/Rfe: Bug

Public Summary: You are unable to load the File Scanning Module when using the Sun Enterprise SyMON 2.0 agent with the Sun Management Center 2.1 or 2.1.1 console.

Workaround: None available at this time.

==========

Bug Id: 4286360

Bug/Rfe: Bug

Public Summary: If you create a new domain and start a discovery request, then delete the domain and re-create another with the same name, when you click the Populate Now button, the discovery window displays with the old discovery request that was filed before the deletion of the previous domain with the same name.

Workaround: None available at this time.

==========

Bug Id: 4287026

Bug/Rfe: Bug

Public Summary: When an alarm is acknowledged, the agent and event manager both record it. If the agent is then restarted, the agent has the alarm recorded as acknowledged, but the event manager does not. This results in an inconsistency between the Browser tab and the Alarms tab.

When the agent is restarted, and is relogging a new open event for a condition that is acknowledged, it should also log an acknowledgement event.

Workaround: None available at this time.

==========

Bug Id: 4287201

Bug/Rfe: Bug

Public Summary: If the File Monitoring module is loaded, and you disable the module, then try to add rows for the module, the message “row with the following index already exists” displays.

Note – This bug does not affect other modules. You can add rows to other modules, even if they are disabled.

Workaround: Whenever you want to add a row for the File Monitoring module, first be sure the Module is enabled.

==========

Bug Id: 4288042

Bug/Rfe: Bug

Public Summary: When you try to add a File Scanning module using a Microsoft Windows NT or Microsoft Windows 98 machine, the screen freezes for 3-5 minutes.

Workaround: Use the mouse key to press the OK button instead of pressing the Enter key on the keyboard.

==========

Bug Id: 4289604

Bug/Rfe: Bug

Public Summary: When running `es-start` with no argument to display the help messages, the message below is not localized:

"the A, a, t, f, p, and e options."

The problem is that this message (`msgid`) in the translatable English `ES_SCRIPTS.po` file does not match the one used in the `es-start script`.

The same problem is found for the message:

"Could not find any packages in `$inst_dir` directory."

In the English `ES_SCRIPTS.po` file, the `msgid` is:

"Could not find any packages in `$inst_dir` director."

In the `inst-es` script:

```
 eval echo '/usr/bin/gettext 'Could not find any packages in
$inst_dir directory''
```

It appears that the translatable English `ES_SCRIPTS.po` file is out of date. This file needs to be updated.

Workaround: Modify these two `msgids` in the `L10N ES_SCRIPTS.po` files to match the messages used by scripts.

==========

Bug Id: 4289604

Bug/Rfe: Bug

Public Summary: In a Microsoft Windows environment, the Legends for Graph Window is not configurable.

Workaround: None available at this time.

==========

Bug Id: 4300752

Bug / Rfe: Bug

Public Summary: For the File Scanning module, the default alarm limits and limits used in 2.0.1 do not work in 2.1 and 2.1.1.

Workaround: Copy the limits under the “Matches” column (2.0.1) to the “Total Matches” column (2.1 and 2.1.1).

Note – If there are total matches limits defined in 2.0.1, you do not have to copy the matches (2.0.1) to total matches in (2.1 and 2.1.1).

==========

Bug Id: 4302619

Bug / Rfe: Bug

Public Summary: Modules with multiple instances can only display up to 50 rows of data properties in the property table for the module. Additional rows may display incorrectly.

Workaround: If you need more than 50 rows, load a new instance of the module and add the additional rows.

Note – You may also see this problem with the MIB-II Proxy Monitoring module, when the TCP / UDP table or another table has more than 50 rows. Rows subsequent to row 50 may display incorrect data. There is no workaround at this time.

==========