Sun™ Management Center 3.0 Platform Update 4 Software Release Notes

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Sun Management Center 3.0 Platform Update 4 Software Release Notes

The Sun™ Management Center 3.0 Platform Update 4 release provides additional hardware platform support and add-on packages for Sun Management Center 3.0. This release supercedes the content and functionality in previous Sun Management Center 3.0 Platform Update releases. For the latest information about the individual hardware platforms supported in this release, refer to the Sun Management Center web site:

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

Be sure to also read the *Sun Management Center 3.0 Software Release Notes* before you install the Sun Management Center 3.0 Platform Update 4 software. The document is located on the Platform Update 4 CD (3 of 3).

License terms for third-party software are included in a `Read-Me-License` on the distribution CD.

This Release Notes document covers the following topics:

- What is Sun Management Center 3.0 Platform Update 4?
- Documentation
- Upgrading to Sun Management Center 3.0 Platform Update 4
- Supported Java Versions in Sun Management Center 3.0 Platform Update 4
- Patch Installation and Setup
- Bugs Fixed By the Platform Update 4 Jumbo Patch
- System Reliability Manager for Sun Management Center 3.0
- Service Availability Manager for Sun Management Center 3.0
- MCP Changes After Patch Installation
- Known Bugs
- Known Issues

What is Sun Management Center 3.0 Platform Update 4?

Sun Management Center 3.0 Platform Update 4 provides support for additional hardware platforms and add-on packages that were not included in the Sun Management Center 3.0 release. This Platform Update 4 release continues support for the following hardware platforms from previous Sun Management Center Platform Update releases:

- Sun Fire™ 6800, 4810, 4800, and 3800
- Sun Fire 880
- Sun Fire 15K
- Netra™ 20 (Netra T4 AC100/DC100)
- Netra X1
- Netra T1 AC200/DC200
- CP2040 and CP2060

Note – The Sun Blade™ 100 platform has been supported in *all* Sun Management Center 3.0 releases.

In addition, Sun Management Center 3.0 now includes support for the following hardware platform in the Platform Update 4 release:

- Sun Fire 480R

Platform Update 4 contains the following enhancements from the Platform Update 3 release:

- New Sun Management Center 3.0 Service Availability Manager add-on packages
- Updated Platform Admin and Domain Admin add-on packages for Sun Fire 6800, 4810, 4800, and 3800
- Updated DR add-on packages for Sun Fire 6800, 4810, 4800, and 3800
- Updated Sun Fire 15K add-on packages
- Updated Netra add-on packages
- Updated Workgroup Server add-on packages
- Updated Desktop add-on packages
- Jumbo patch for Sun Management Center 3.0 Platform Update 4

Note – For details about specific updates to platform packages since the Sun Management Center 3.0 release, refer to your hardware platform supplement or hardware platform Release Notes.

The Sun Management Center 3.0 Platform Update 4 Jumbo patch will patch whatever component packages are installed on your system.

Documentation

You can access the Sun Management Center 3.0 documentation and related Sun Management Center hardware platform documentation in the following location on the Platform Update 4 CD (3 of 3):

```
/cdrom/cdrom0/Docs
```

The latest versions of these documents can also be found at the following web site:

```
http://docs.sun.com
```

Note – The documents listed under the "Related Documentation" section of the *Sun Management Center 3.0 Software Release Notes* may not necessarily be the same documents provided on the Sun Management Center 3.0 Platform Update 4 CD.

Upgrading to Sun Management Center 3.0 Platform Update 4

If you are installing Sun Management Center 3.0 for the first time, refer to the *Sun Management Center 3.0 Software Installation Guide* for details on installing the software and details about the installation script. You must first install the Sun Management Center 3.0 base component layers before you install the Platform Update 4 Jumbo patch as described in "Patch Installation and Setup" on page 6.

Note – If you plan on installing Sun Management Center 3.0 in a non-default directory, *do not* pre-set the ESROOT variable to /opt/SUNWsymon.

If you are planning on upgrading to Platform Update 4 from either Sun Management Center 3.0 or from a previous Sun Management Center 3.0 Platform Update release, first do the following:

1. **Identify the Platform Update 4 patch ID specific to your operating environment (see** TABLE 1**).**

2. **Verify whether you already have the Platform Update 4 Jumbo patch installed on your system:**

```
% showrev -p | grep patchID_number
```

If you already have the designated patch for Platform Update 4 installed, go to Step 3.

If you do *not* have the designated patch for Platform Update 4 installed, follow the procedures in "Patch Installation and Setup" on page 6, then go to Step 3.

Note – If you wish to install System Reliability Manager for Sun Management Center 3.0, you need to also install the System Reliability Manager Jumbo patch. See "System Reliability Manager for Sun Management Center 3.0" on page 17.

3. **Install the Platform Update 4 add-on package(s).**

For platform-unique installation details about an add-on product, refer to the hardware platform supplement on the Platform Update 4 CD (3 of 3) specific to the add-on product you wish to install.

Note – Before installing updated platform add-on packages, be sure to read your hardware platform supplement for instructions on how to uninstall your current platform packages.

a. **Run the** `es-inst` **script to install the Platform Update 4 add-on package(s).**

For details on the Sun Management Center 3.0 installation script, refer to the *Sun Management Center 3.0 Software Installation Guide*.

The individual add-on product packages can be found in the following directory on the Platform Update 4 CD (2 of 3):

```
image/Addons/
```

Supported Java Versions in Sun Management Center 3.0 Platform Update 4

For Platform Update 4, only JDK™ version 1.2.2_06 and higher Java™ versions are supported on Solaris 2.6, Solaris 7, and Solaris 8. After verifying you have the proper Java software, you must set your `JAVA_HOME` variable to point to the new JDK version before using the Sun Management Center 3.0 `es-inst` installation script.

`JAVA_HOME` should be set to the directory from where `bin/java` can be accessed. For example, if the JDK version was installed in `/usr/xyz/` and the Java binary is present in `/usr/xyz/bin/java`, `JAVA_HOME` should be set to `/usr/xyz`. For example:

```
JAVA_HOME=/usr/xyz
export JAVA_HOME
```

If the `JAVA_HOME` variable is not set, and the `/usr/java1.2` directory does not contain JDK 1.2.2_06 or a higher version, the Sun Management Center 3.0 `es-inst` installation script will install JDK version 1.2.2_06 by default and continue with the Sun Management Center 3.0 installation.

Note – The installed Java software must be a JDK version, and not just the JRE.

If you would like to change Java versions *after* your installation and setup are done, reset `JAVA_HOME` as follows:

```
JAVA_HOME=/usr/xyz
export JAVA_HOME
/opt/SUNWsymon/sbin/es-setup -j
```

Patch Installation and Setup

This section describes patch installation and setup procedures specific to the Sun Management Center 3.0 Platform Update 4 release. The Sun Management Center 3.0 Platform Update 4 Jumbo patch contains fixes for the Sun Management Center 3.0 bugs listed in "Bugs Fixed By the Platform Update 4 Jumbo Patch" on page 12.

Note – Install the Platform Update 4 Jumbo patch only *after* you have installed the Sun Management Center 3.0 base component layers. The Platform Update 4 Jumbo patch will obsolete any previously-installed Platform Update Jumbo patch.

For Solaris™ Operating Environments, follow the steps provided in "Installing the Patch in a Solaris Environment" on page 7.

For Windows 98 and Windows NT environments, follow the steps provided in "Installing the Patch in a Microsoft Windows Environment" on page 11.

Note – If you want to use the Sun StorEdge™ A5*x*00 module, you must install the SUNWluxop and/or SUNWluxox storage patch for the corresponding operating environment. Loading the A5*x*00 module without installing the appropriate patch will cause the Sun Management Center agent to die. You can access either patch from the following web site: `http://sunsolve.sun.com`

Installing the Patch in a Solaris Environment

You can install the Jumbo patch from the CD or web as described in the following procedures. If you are installing the patch from the CD, you have the option of either automatic or manual installation.

▼ To Install the Patch Automatically From the CD

1. **Become superuser by using the** `su -` **command.**

2. **Stop all Sun Management Center processes. For example:**

   ```
   # /opt/SUNWsymon/sbin/es-stop -A
   ```

3. **Insert the Sun Management Center 3.0 Platform Update 4 CD (1 of 3) in the CD-ROM drive.**

4. **Change to the CD-ROM directory.**
   - If you are using the Volume Manager (`vold`), type:

   ```
   # cd /cdrom/cdrom0
   ```

   - If the CD-ROM drive is not already mounted, mount the drive by typing:

   ```
   # mkdir /cdrom/cdrom0
   # mount -o ro -F hsfs /dev/dsk/cXtYdZs0 /cdrom/cdrom0
   # cd /cdrom/cdrom0
   ```

5. **Run the** `es-inst` **script by typing the following command:**

   ```
   # /cdrom/cdrom0/sbin/es-inst
   ```

6. **If you currently have Sun Management Center 3.0 software installed, answer no (n) when prompted for the component layers and add-on products that you either already have installed or do not wish to install.**

   For details on the Sun Management Center 3.0 installation script, refer to the *Sun Management Center 3.0 Software Installation Guide.*

7. **When prompted, eject the Platform Update 4 CD (1 of 3) from the CD-ROM drive and insert the CD that contains the Jumbo patch for your operating environment.**

   If you are running in a Solaris 2.5.1, Solaris 2.6, or Solaris 7 Operating Environment, insert CD 2.

   If you are running in a Solaris 8 Operating Environment, insert CD 3.

   Note – You will need additional disk space for the Sun Management Center 3.0 server layer to install the Jumbo patch. This will increase the minimum disk space requirements described under "System Requirements" in the *Sun Management Center 3.0 Software Installation Guide.*

   ---

8. **Run the Sun Management Center 3.0 setup (when prompted) if you have installed the server component layer.**

9. **When the installation has completed, start all Sun Management Center processes. For example:**

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

▼ To Install the Patch Manually From the CD

1. **Become superuser by using the** su - **command.**

2. **Stop all Sun Management Center processes. For example:**

   ```
   # /opt/SUNWsymon/sbin/es-stop -A
   ```

3. **Insert the Sun Management Center 3.0 Platform Update 4 CD in the CD-ROM drive.**

   If you are running in a Solaris 2.5.1, Solaris 2.6, or Solaris 7 Operating Environment, insert CD 2.

   If you are running in a Solaris 8 Operating Environment, insert CD 3.

4. **Change to the CD-ROM directory.**

   - If you are using the Volume Manager (vold), type:

   ```
   # cd /cdrom/cdrom0
   ```

- If the CD-ROM drive is not already mounted, mount the drive by typing:

```
# mkdir /cdrom/cdrom0
# mount -o ro -F hsfs /dev/dsk/cXtYdZs0 /cdrom/cdrom0
# cd /cdrom/cdrom0
```

5. **Change to the directory of your operating environment to access your particular patch (see** TABLE 1**) in the following location:**

```
image/Patches/
```

Go to Step 6 of "To Install the Patch Manually From the Web" on page 9.

▼ To Install the Patch Manually From the Web

1. **Go to the following Sun Management Center web site:**

   http://www.sun.com/software/sunmanagementcenter/download/

2. **Download the patch ID specific to your operating environment (see** TABLE 1**).**

TABLE 1   Sun Management Center 3.0 Platform Update 4 Jumbo Patch IDs

Operating Environment	Jumbo Patch ID for Sun Management Center 3.0 GA Release (Build 41)
Solaris 2.5.1	110862–04
Solaris 2.6	110936–05
Solaris 7	110937–05
Solaris 8	110938–05
Microsoft Windows	110863–04

If you are not sure which version of Sun Management Center 3.0 you have installed on your system, type the following command to verify Build 41 is already installed:

```
% pkgparam SUNWescom VERSION
```

3. **Become superuser by using the** su – **command.**

4. **Stop all Sun Management Center processes. For example:**

```
# /opt/SUNWsymon/sbin/es-stop -A
```

5. **Change directory to the location where the patch has been downloaded.**

6. **Review the** README **file within the patch directory.**

7. **If you are running in a Solaris 2.5.1 Operating Environment, use the** installpatch **command to apply the patch. Otherwise, go to Step 8.**

   For example, if you had downloaded patch ID 110862-04 for the Solaris 2.5.1 Operating Environment, you would type the following command after changing to the 110862-04 directory:

   ```
   # ./installpatch .
   ```

8. **Use the** patchadd **command to apply the patch for Solaris 2.6, Solaris 7, and Solaris 8 Operating Environments.**

   For example, if you had downloaded patch ID 110937-05 for the Solaris 7 Operating Environment, you would type the following command after changing to the directory where the 110937-05 directory is located:

   ```
   # patchadd 110937-05
   ```

9. **Run the setup command if you have installed the server component layer:**

   ```
   # /opt/SUNWsymon/sbin/es-setup
   ```

10. **Start all Sun Management Center processes. For example:**

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

   After you have installed the Platform Update 4 Jumbo patch, you have the option to turn off SNMPv1 and SNMPv2c agents. For details, refer to the README file within your particular patch ID directory. For example: 110937-05/README.110937-05

   To access information on the individual bugs fixed by the patch, you can also refer to the same README file.

Installing the Patch in a Microsoft Windows Environment

If you are downloading the Platform Update 4 Jumbo patch from either the CD or the web in a Microsoft Windows 98 or Windows NT environment, follow the procedure described below.

▼ To Install the Patch From the CD or Web

1. **Download the patch.**

   - If you are installing the patch from the CD, insert the Platform Update 4 CD (3 of 3) in the CD-ROM drive and access the Microsoft Windows patch (see TABLE 1) from the following directory:

     ```
     image/Patches/Windows
     ```

   - If you are installing the patch from the web, go to the following Sun Management Center web site:

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

2. **Copy the patch zip file to an appropriate (patch directory) location.**

3. **Change directory to the patch directory and unzip the file.**

4. **Change directory to the patch ID number directory.**

   For example, if you had downloaded patch ID `110863-04.zip` and then unzipped the file, you would change directory to `110863-04`.

5. **Verify that the `CLASSPATH` and `PATH` are set correctly.**

   For example, the `CLASSPATH` is as follows:

   ```
   C:\patch_directory\patchID_number
   ```

   and the `PATH` is as follows:

   ```
   C:\base_directory\SunMC3.0\javasoft\bin
   ```

6. **Type the following command:**

   ```
   java WelcomeView
   ```

7. **Click on the Install button on the displayed GUI.**

▼ To Uninstall the Patch

1. Type the following command:

```
java WelcomeView
```

2. Click on the Uninstall button on the displayed GUI.

Bugs Fixed By the Platform Update 4 Jumbo Patch

The following table lists the known bugs for Sun Management Center 3.0 that have been fixed for the Platform Update 4 release by the Platform Update 4 Jumbo Patch.

TABLE 2   Sun Management Center 3.0 Bugs Fixed for Platform Update 4

Bug ID	Synopsis
4273053	In Sun Management Center, discrepancy b/t physical view and manual as to memory slot location
4367329	MCP does not work for multiple instance modules
4382313	`hwdiag.info` is not available
4390668	Java console hangs because of `java.lang.OutOfMemoryError`
4393621	CLI error message is not I18N-ed
4393870	HD Suite console has bad formatting so that some buttons are hidden
4394182	`.sql` and `.log` files in `/tmp` do not get cleaned up
4395988	Set attribute does not work for table property and attribute
4396238	Attribute editor failed on cell dataview from multi instance table
4396800	Warning message when installing advanced monitoring on Sun Fire - no config reader
4397035	`es-device/es-details` create insecure files
4397179	`getAllTopoObjects` does not display all objects that match filter conditions
4397379	`es-uninst` should remove Java if installed in alternate location
4397453	Assign and configure command – error in `/var/opt/SUNWsymon/log/agent.log`

TABLE 2 Sun Management Center 3.0 Bugs Fixed for Platform Update 4 *(Continued)*

Bug ID	Synopsis
4397602	Installation does not install current DE document
4397692	Migration fails if kernel tuning files need to be changed
4398249	`getAttributes` does not work for properties on certain tables
4398282	"Hardware Diagnostic Suite Server not found" is displayed in English
4398979	MCP: restarts the agent
4398980	Module `.dat` file is removed when module is unloaded
4398984	MCP does not support module instance names
4399229	Probe does not support a firewall between agent and server
4399558	`es-servercontrol.sh` does not allow valid Sun Management Center users to login
4400157	Default or factory shipped suggested fix does not get added to dB
4401216	Unable to launch telnet from custom pop-up menus
4401286	In web console, unable to see attribute editor for platform agent
4401677	Improper window is displayed against insufficient privileges
4402296	`ack` case in alarm rules does not get invoked if the MIB node has security
4402478	Variable name is displayed instead of its value
4403112	Alarm dates are all yesterday
4403668	SDK file has wrong "include" statement
4404150	Seeing several duplicate alarms - bogs machine down
4405052	Published MIBs need to be updated for inconsistencies with modules
4406111	When a new alarm is coming the deleted alarms display again
4406478	Sun Management Center-SLM error message displayed even after Sun Management Center uninstall
4406683	Closed alarms have the same date as when alarm was open
4407106	Config Reader aborts on U10 with high density DIMMs
4408468	Metadata process fails to load for modules that require `tcl/toe` classes
4408507	Platform Types filter does not include Sun Fire 15K criteria
4409159	WGS static config reader fails on older platforms running S8U1 or U2
4410415	Topology license module has objects that are not present in server context
4410476	3.0 installation installs two `configd` on desktop or WGS machine
4410629	CLI must support scripted and command line logon

TABLE 2   Sun Management Center 3.0 Bugs Fixed for Platform Update 4 *(Continued)*

Bug ID	Synopsis
4412566	The module list in filter window is inconsistent with task window
4412949	Error message should display if `hdsrvrmi.jar` is missing
4413151	I18N table title cannot show Chinese as previous builds
4413666	Event SLM needs to be multi threaded
4414018	Exception error during installation and setup of Sun Fire add-on
4414058	Unnecessary message is displayed in SC network setup table
4414114	Error message seen while trying to get alarm info
4414320	Sun Management Center does not clear the old irrational alarm
4417087	Sun Fire shown as blue folders by Sun Management Center
4417767	`configd` does not show the SIMM size and status on E3500 machine
4417792	Filter based on module does not work normally
4417934	`SUNWessta` fails to uninstall
4420049	Incorrect question asked when migrating Sun Management Center 3.0 data
4421880	Probe viewer crashes agent
4422805	`pkgdata` port ot C causes the agent to lose the function call of `clearError`
4424767	Sun StorEdge A5x00 components need to report status change immediately
4426286	Error message in `hd-server.sh` when starting HD agent
4427745	SyMON agent `esd` dumps core
4428712	RefreshTrigger for the DR module on EM node not working
4428722	`em_slm.so` causes `sysevent` to core dump
4429555	Remove repacking of `sysevent` datatype from `em_slm`
4431274	Topology license module should not use timestamps and remove invalid licenses
4445242	HWDS agent is not finding the firewall ports of Sun Management Center
4450752	Sun Management Center 3.0 does not support licensing for add-ons
4450836	In Windows 98/NT, machine Details Applications tab does not show Hardware Diagnostic
4454597	Sun Management Center 3.0 installs Qpatches as part of install script
4455381	Licensing data is incorrect for 3 modules
4456023	Hardware Diagnostic Suite mapping does not show memory test for Sun Fire
4456455	Sun Management Center agent core dumps during start-up on Sun Fire 15K domain

TABLE 2 Sun Management Center 3.0 Bugs Fixed for Platform Update 4 *(Continued)*

Bug ID	Synopsis
4467011	The status of new users is not propagated to all agents[1]
4468369	Using grouping to create a filter does not work
4468999	History log will log redundant data for module table
4469673	Hardware Diagnostic Suite requires a change for SUID `ptexec` permissions
4469680	Hardware Diagnostic Suite Agent needs to search for `minPort/maxPort` in `domain-config.x`
4470103	MCP does not work for modules loaded with `default` option
4470282	ACL file has a serious security hole
4473741	Port for look up service should be configurable[2]
4475902	Local probe service does not work
4480284	Agent defunct processes
4481320	Hardware Diagnostic Suite: More than one `edagent` was running on a system
4483792	Need Sun Management Center to display and alarm on the failure of a T3 tray
4484159	Hardware Diagnostic Suite: Some tests cannot be executed
4485357	Substring name of other agents deletes all agents
4485511	IPV6 module is shutting down Sun Management Center agent
4485919	Sun Management Center 3.0 `/etc/system` changes stomp on GNOME `/etc/system` changes
4489351	Grouping services do not allow new tasks to be added
4490282	`SUNWesora` package needs patch to enable partitioning feature
4491117	`HostdetailsBean` fails if `targetHost` is not a machine name
4494593	Sun Management Center agent does not have a switch to turn off SNMPv1 messages in and out
4498397	Oracle package must not be uninstalled if a dependency exists
4498401	Default seed should not be provided during setup of Sun Management Center[3]
4498797	History logging will log internal expression "?2e" into file for some properties
4499715	When a module uses a separate shell, `es-stop` sometimes does not stop the agent
4502688	Pop-up that displays when using non-licensed features of product should be removed
4509938	`cfgserver` does not propagate `agent-usmusertbl-d.dat` correctly
4512199	`startup.profile` file contains paths to a Sun internal host

TABLE 2   Sun Management Center 3.0 Bugs Fixed for Platform Update 4   *(Continued)*

Bug ID	Synopsis
4513089	Cannot create MCP parcel
4513181	Cannot create a new task
4514375	MCP parcel creation fails
4514942	`history.log` format takes description instead of instance name
4521697	When Sun Management Center software is installed in a directory other than the default (`/opt`) and a patch is applied, Hardware Diagnostic Suite might not be available
4523788	Having problems running Java 1.3_4
4524180	Hardware Diagnostic Suite should use the same revision of JVM as Sun Management Center software
4524185	Cannot log in to Sun Management Center when using Java 1.3.0_4
4524447	PV/LV details window is greyed out
4524638	Alert messages still appear when starting web console and CLI without a license
4524761	Details Applications tab screen divider is in the wrong place
4525271	Using JDK1.4, creating tasks of Data Property type in grouping operation works abnormally
4526196	Web console will not work with JDK versions greater than 1.2.2_06
4529360	Sun Management Center should support JDK versions 1.2.2_06 or greater

1. Fixes: a) The security keys will not be generated when setup is rerun if the previous setup was done correctly and all security key files are found at `/var/opt/SUNWsymon/cfg` b) An option `-F` has been added that enables you to force a re-seed. This fix is only implemented when `es-setup` is rerun. A first-time setup is not impacted.

2. Fix: If the default port for lookup service is busy, setup will ask you for another optional port.

3. Fix: Setup no longer enables you to select a default seed. You must enter a valid seed.

System Reliability Manager for Sun Management Center 3.0

The System Reliability Manager add-on product provides the following module packages for Sun Management Center 3.0:

- OS Crash Dump Analyzer (to detect and evaluate kernel crash dumps)
- File Watcher (to monitor a list of files for additions, deletions, and modifications)
- Patch Management (to generate alarms for uninstalled patches)
- Script Repository and Script Launcher (to execute scripts that perform arbitrary management tasks on remote devices)

For details on the System Reliability Manager add-on product, refer to the *System Reliability Manager for Sun Management Center 3.0 Software User's Guide* on the Platform Update 4 CD (3 of 3).

Note – To install the System Reliability Manager product, you must follow the sequence of steps provided in the following section.

Installing System Reliability Manager for Sun Management Center 3.0

The System Reliability Manager add-on product should only be installed in the order described within this section.

1. **Install the Sun Management Center 3.0 base component layers with the** `es-inst` **script.**

   For details on the Sun Management Center 3.0 installation script, refer to the *Sun Management Center 3.0 Software Installation Guide.*

Note – If you plan on installing Sun Management Center 3.0 in a non-default directory, *do not* pre-set the `ESROOT` variable to `/opt/SUNWsymon`.

---

2. **Upgrade your system with the Platform Update 4 patch ID specific to your operating environment as shown in** TABLE 1**.**

   For details on how to install patches, see "Patch Installation and Setup" on page 6.

   You should install the latest recommended patch on *all* systems of *all* Sun Management Center layers.

3. **Install the System Reliability Manager product.**

   The `es-inst` installation script can also be used to install the System Reliability Manager product. The script will prompt you to install System Reliability Manager as an add-on product.

   If the installation script detects that the server layer is not patched with the recommended patch, you will *not* be prompted to install the System Reliablity Manager product. Although it is possible to install the product on console and/or agent systems without the recommended patch, the functionality of the System Reliability Manager modules will be impacted.

   If you are not prompted to install the System Reliablity Manager product because the server layer has not been patched, simply install the recommended patch and then run the `es-inst` installation script to install the System Reliablity Manager product add-on. (The recommended configuration is to install the latest applicable patch on all systems of all Sun Management Center layers.)

   A console or agent layer can be patched before or after installing the System Reliability Manager product.

4. **Upgrade your system with the System Reliability Manager patch ID specific to your operating environment as shown in** TABLE 3**.**

   The System Reliability Manager patch fixes the following System Reliability Manager bug:

   ```
   4482464    Module shows already-installed patches as missing
   ```

TABLE 3   System Reliability Manager Patch IDs

Operating Environment	System Reliability Manager for Sun Management Center 3.0 Patch ID
Solaris 2.5.1	111934-01
Solaris 2.6	111935-01
Solaris 7	111936-01
Solaris 8	111937-01

Known Issues with Setup

If you run setup after installing the Sun Management Center 3.0 software, but have chosen not to preserve the data, you need to perform the following steps (as superuser) for the System Reliability Manager product to work correctly.

1. **After setup has completed and the existing data has been removed, delete the** `modules.info` **file:**

```
# rm /var/opt/SUNWsymon/SysMgmtPack/modules.info
```

2. **Run setup for the System Reliability Manager product:**

```
# /opt/SUNWsymon/sbin/es-setup -p SystemManagement
```

Service Availability Manager for Sun Management Center 3.0

The Service Availability Manager add-on product enables you to measure and monitor the availability of Internet services, either locally or remotely. The following services are provided for Sun Management Center 3.0:

- Web service using the HTTP protocol
- Directory service using the LDAP (Version 3), DNS, or NIS (Version 2) protocol
- Telnet service
- File transfer service using the FTP protocol
- Mail service using the SMTP, IMAP4, or POP3 protocol
- Solaris calendar service

Note – Service Availability Manager modules are not supported across security firewalls for the Sun Management Center 3.0 release.

For details on the Service Availability Manager add-on product, refer to the *Sun Management Center 3.0 Service Availability Manager User's Guide* on the Platform Update 4 CD (3 of 3). The document includes the necessary procedures for installation and setup of the product.

MCP Changes After Patch Installation

The following updates have been made to the "Module Loader" and "Create/Edit Tasks" windows for Module Configuration Propagation (MCP).

Module Loader

A Default Settings button has been added to the Module Loader window as shown at the bottom of FIGURE 1.
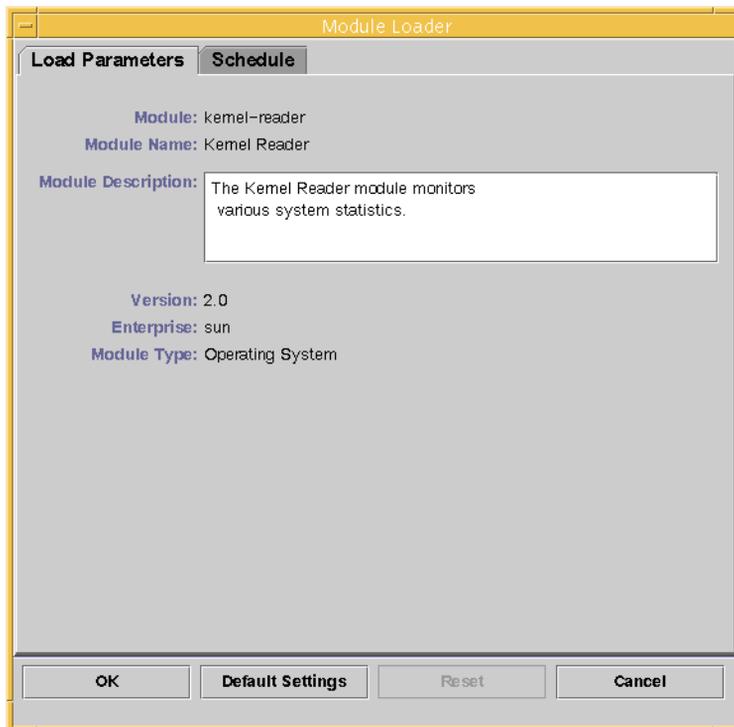
FIGURE 1   Module Loader Window

You can load a module by either:

- Clicking OK to load using previously overridden settings (i.e., alarm thresholds), if any exist.

- Clicking on Default Settings to load using the default settings. Any previously overridden settings are discarded.

Create/Edit Tasks

Four new columns have been added to the lower table of the Create/Edit Tasks window for when you create or edit an MCP task.

FIGURE 2   Create/Edit Tasks Window

1. **Select a parcel in the Name column.**

2. **Select one of the options in the Propagate column:**

   - To all Targets (Propagate to all target agents.)

- If not loaded on Target (Propagate a module only if the module is not loaded on the target agent.)
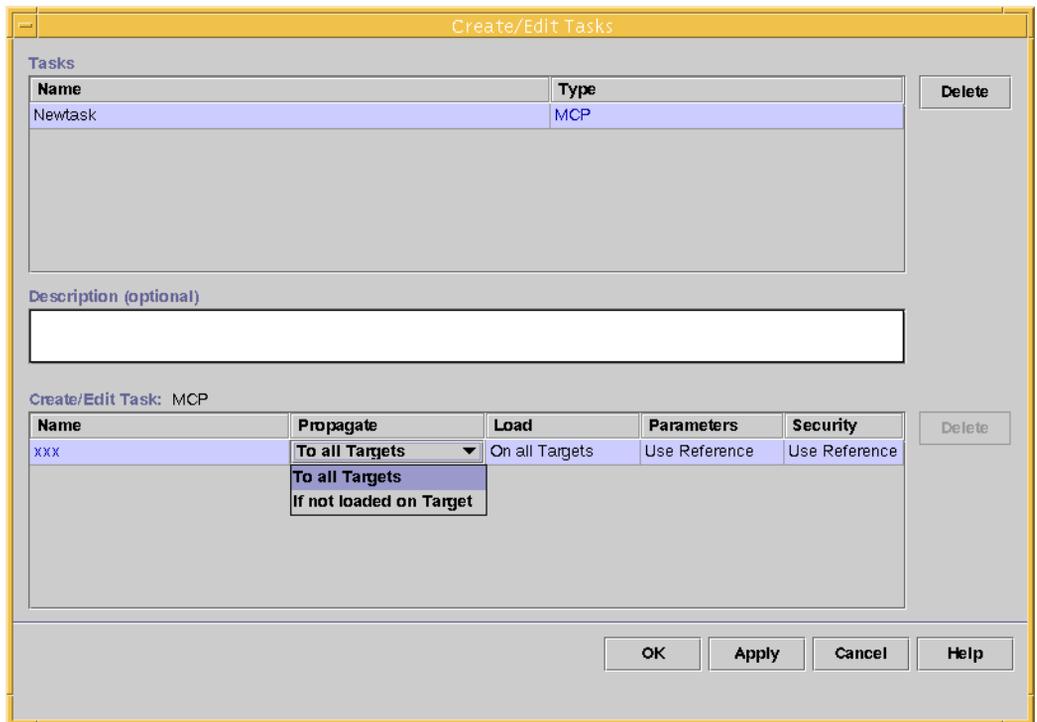
3. **Select one of the options in the Load column:**

   - On all Targets (Load the module.)
   - If loaded on Target (Reload the module only if it is loaded. Do not load if the module is not loaded.)

4. **Select an option in the Parameters column.**

   This affects how the module is loaded:

   - Use Reference (Use the module load parameters from the reference agent.)
   - Use Target (Use the module load parameters from the target agent.)

5. **Select an option in the Security column.**

   This affects how the module is loaded:

   - Use Reference (Use the security settings from the reference agent.)
   - Use Target (Use the security settings from the target agent.)

When the module is propagated, the agent no longer restarts. Depending on the options selected, either an already-loaded module is reloaded or a module that is not loaded is loaded. Also, support for propagating multi-instance modules has been added.

Known Bugs

The following is a list of known problems in the Sun Management Center 3.0 software. This list includes workarounds if any are available at the time of this release. You should also refer to the *Sun Management Center 3.0 Software Release Notes* for any additional known problems in the Sun Management Center 3.0 release.

- **Bug 4399253**: Error message `Bad command or file name` is displayed several times during the installation on Windows 98.

  When you are installing Sun Management Center software on Windows 98 with the `install.bat` command, the error message `Bad command or file name` is displayed by the command interpreter.

  Workaround: Ignore the message.

- **Bug 4399254**: `README` file contains some incorrect characters on Microsoft Windows.

  The `README` file is only provided in UNIX® format, so some characters are displayed incorrectly with "Notepad" on Microsoft Windows.

  Workaround: Open the file with "Wordpad" or a web browser.

- **Bug 4400295**: Help messages for the command line on Asian Windows display incorrectly.

  When you attempt to display the help messages of `es-cli` sub commands on Asian Windows with the `-h` option, the messages are partially incorrect.

- **Bug 4400684**: Asian characters appear corrupted on some Web Console pages.

  If you are using the Web Console for asian languages, asian characters are displayed incorrectly on some pages with certain web browsers, especially on Microsoft Windows.

  Workaround: This problem is caused by the incompatibility of the CSS (Cascading Style Sheet) and certain web browsers. If you have this problem, first try another web browser. If the problem is not resolved, you need to either remove the following files:

  > <*install_directory*>/SUNWsymon/web/styles/EditorStyle.css
  > <*install_directory*>/SUNWsymon/web/styles/HeaderStyle.css

or modify them and remove attributes for font-family (as shown below):

```
EditorStyle.css: "font-family: sans-serif,impact;"
HeaderStyle.css: "font-family: sans-serif,impact;"
```

- **Bug 4401503**: In German locale, some prompts for installing Advanced System Monitoring will not accept "j" as "Yes."

  If you install Advanced System Monitoring software in a German locale, some messages prompt you with [j/n/b]. However, the character "j" is not accepted as a "Yes" answer.

  Workaround: Type upper-case "J" instead of "j" in lower-case.

- **Bug 4401681**: Confusing translation for setup in zh_TW locale.

  After installation, the question Do you want to run setup now? is displayed to continue the setup process. However, for the zh_TW locale, the question is erroneously translated to Do you want to run install now?

  Workaround: You should ignore this incorrect translation, and decide whether to continue the setup process.

- **Bug 4402476**: Variable name is displayed instead of its value.

  For Desktop, Workgroup Server, and Netra t Server add-on products, the console does not provide a description for the rules of the Configure Reader module.

- **Bug 4402502**: Online help of Web Console does not open correctly for languages other than English on Solaris 2.6 and Solaris 7 Operating Environments.

  If you install online help locally in languages other than "C" on Solaris 2.6 or Solaris 7, you cannot browse online help for the Web Console.

  Workaround: As superuser, create the following symbolic link:

```
# cd install_directory/SUNWsymon/lib/locale
# ln -s locale_name C
```

- **Bug 4403241**: Online help of Web Console does not work on Solaris 8.

  If you install online help with full European locale names such as de_DE.ISO8859-15, it cannot be accessed from the Web Console.

  Workaround: As superuser, create a symbolic link using the current locale name:

```
# cd install_directory/SUNWsymon/lib/locale
# ln -s short_locale_name  full_locale_name
```

For example:

```
# ln -s de de_DE.ISO8859-15
```

- **Bug 4489368**: Sun Management Center console hangs when Hardware Diagnostic Suite test is stopped.

  Workaround: If the Navigation tree is fully expanded before selecting a device to test, this bug does not appear. This bug only appears when a device is selected while the tree is still collapsed.

- **Bug 4490403**: Error occurs during Composite Object "create."

  Workaround: Create the object through a Discovery request. Edit ➤ Create succeeds when all Platform Agents are running.

- **Bug 4532673**: Discovery Table module is deleted if the Platfrom Agent is unset.

  When the Service Availability Manager add-on product and Sun Fire Platform Admin module are set up on the same machine—and the Platform Admin module is then unset—the Service Object cannot be discovered.

  Workaround 1: Do not unset the platform agent.

  Workaround 2: If you unset the platform agent, you need to also unset the Service Availability Manager add-on product and rerun setup of the Service Availability Manager add-on packages so the Service Object can be discovered.

Known Issues

Removing Any Previous Versions of Hardware Diagnostic Suite

If Hardware Diagnostic Suite 1.0 is installed on your system, you must remove it before you install Hardware Diagnostic Suite 1.1 through the Sun Management Center 3.0 installation script.

▼ To Determine if Hardware Diagnostic Suite 1.0 Is Installed

1. Enter the following command:

```
% pkginfo SUNWed SUNWedag SUNWedagx SUNWedss SUNWedh
```

If the pkginfo command reports that all packages are "...not found", then Hardware Diagnostic Suite 1.0 is not installed, and there is no need to perform the following procedure. If you see any messages that report that any Hardware Diagnostic Suite packages are installed, follow the procedure below.

▼ To Remove Hardware Diagnostic Suite 1.0

1. Become superuser.

2. Run the Hardware Diagnostic Suite uninstall script:

```
# /opt/SUNWhwdiag/sbin/uninstall-diag

Hardware Diagnostic Suite uninstall procedure
-----------------------------------------

This utility removes all the Hardware Diagnostic Suite packages.
        Would you like to continue?[y|n|q] y
```

Note – This example assumes that the Hardware Diagnostic Suite is installed in the default (/opt) directory. If it is installed in a different directory, adjust the pathname accordingly.

All the Hardware Diagnostic Suite components will be stopped and removed.