

Sun SNMP Management Agent Version 1.6.2

Release Notes



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Sun SNMP Management Agent Version 1.6.2 Release Notes

This document contains release- and platform-specific information for Oracle's Sun Simple Network Management Protocol (SNMP) Management Agent software, Version 1.6.2, including procedures for installing and uninstalling the software. Use this document with the *Sun SNMP Management Agent Administration Guide for Sun Supported Servers, Version 1.6.1 at a Minimum* (821-0655).

This SNMP agent is used with the Oracle Solaris operating system. On a server that supports this SNMP agent, you might be using a different SNMP agent. Refer to the documentation that applies to the SNMP agent you are using.

This document contains the following sections:

- [“What's New in This Release” on page 1](#)
- [“System Requirements” on page 2](#)
- [“Installing the Software” on page 6](#)
- [“Uninstalling the Software” on page 11](#)
- [“Known Issues” on page 13](#)

What's New in This Release

SNMP 1.6.2 Update 4 adds support for the Oracle Netra SPARC T4-1 servers.

System Requirements

Disk Space Requirements

At least 10 Mbytes must be available on the server.

Oracle Solaris Operating System

Sun SNMP Management Agent, Version 1.6.2, only runs on Oracle Solaris 10. The SNMP agent does not run on Oracle Solaris 11. Check the documentation for your platform for information about any other Oracle Solaris OS requirements.

Obtaining Oracle Solaris OS Packages

Required Oracle Solaris OS packages are available from the Oracle Solaris 10 Operating System DVD, under:

```
/cdrom/cdrom0/s0/Solaris_10/Product
```

You must install these additional packages to enable support of the SNMP Management Agent. For a list of these packages refer to “Installation and Additional Required Packages” in the *Sun SNMP Management Agent Administration Guide for Sun Supported Servers*.

Oracle Solaris OS Patches

No patches are required at this time. To ensure that you have the latest patch information, always check for the latest set of patches for your product at the My Oracle Support web site:

<https://support.oracle.com>

Refer to the hardware and software documentation for current information about required patches and updates on those systems or software.

Supported Platforms

The following table lists all platforms supported in this release and the documentation specific to that platform.

TABLE 1 Supported Platforms

Products	Documentation Links
SPARC T-Series Servers and Server Modules: • SPARC T3-1 server • SPARC T3-2 server • SPARC T3-4 servers • SPARC T3-1B server module • Sun SPARC Enterprise T5120 server • Sun SPARC Enterprise T5220 server • Sun SPARC Enterprise T5140 server • Sun SPARC Enterprise T5240 server • Sun SPARC Enterprise T5440 server • Sun Blade T6320 server module • Sun Blade T6340 server module	http://www.oracle.com/technetwork/documentation/oracle-sparc-ent-servers-189996.html
Netra Servers: • Netra SPARC T4-1 server • Netra SPARC T3-1 server • Netra T2000 server • Netra T5220 server • Netra T5440 server	http://www.oracle.com/technetwork/documentation/oracle-nebs-cert-sys-190008.html

TABLE 1 Supported Platforms (*Continued*)

Products	Documentation Links
Legacy T-Series Servers and Server Modules: • Sun Blade T6300 server module • Sun Fire T1000 server • Sun Fire T2000 server	http://www.oracle.com/technetwork/documentation/oracle-sparc-ent-servers-189996.html
Legacy Netra Servers and Boards: • Netra 210 server • Netra 240 server • Netra 440 server	http://www.oracle.com/technetwork/documentation/oracle-nebs-cert-sys-190008.html
Legacy Entry-Level Servers and Boards: • Sun Fire V125 server • Sun Fire V210 server • Sun Fire V240 server • Sun Fire V215 server • Sun Fire V245 server • Sun Fire V250 server • Sun Fire V440 server • Sun Fire V445 server	http://www.oracle.com/technetwork/documentation/oracle-sparc-ent-servers-189996.html

▼ Obtaining Installation Packages

Sun SNMP Version 1.6.2 Software Update 4 installation packages are supplied in the zip archive bundle `SNMP-1_6_2_u4-GA.tar.Z`. This file is available on the software download site:

<https://support.oracle.com>

To download the software Update, follow this procedure.

1. **Select a language and click the Sign In button.**
2. **Type your username and password and Click the Go button. (Or press the Return or Enter key.)**
3. **Click the Patches & Updates tab.**
4. **In the Patch Search menu, click Product or Family (Advanced Search).**
The Product, Release and Platform options and other menus are displayed.
5. **In the Products field, type SNMP.**
In the dropdown menu, the SNMP products are displayed.

6. Click to select Sun SNMP Mngmt Agent for Sun Fire and Netra.
7. In the Release menu, click the arrows to display the SNMP folder.
 - a. Click the box to select SNMP Agent for Sun Fire and Netra 1.6.2.
 - b. In the Platform menu, select Oracle Solaris on SPARC (64-bit)
 - c. Click the close button.
8. For the platform, leave the menu set at Platform and use the right menu to click and select Oracle Solaris on SPARC 64-bit.
 - a. Click the close button.
9. Click the yellow Search button.

A folder is displayed: "Sun SNMP Mgmt Agent for Sun Fire and Netra"
10. Select the left box for SNMP Agent for Sun Fire and Netra 1.6.2
11. Select download.

A zip file is displayed.

 - a. Click the zip file to download the file.

Always use the latest version of this file for installation. For information about installation, see ["Installing the Software" on page 6](#).

Documentation

Sun SNMP Management Agent documentation is at:

<http://www.oracle.com/pls/topic/lookup?ctx=SNMP1.6>

Installing the Software

Required Installation Packages

You must install the installation packages in [TABLE 2](#) to enable support of the SNMP management agent. For information about obtaining these packages, see ["Obtaining Installation Packages" on page 4](#).

The following table lists all packages contained in the tar archive bundle.

TABLE 2 SNMP Management Agent Software Installation Packages

Package	Package Name	Function
SUNWespd1	Common Config Reader PCPDAQ Library	Framework for providing configuration information
SUNWescd1	Common Config Reader DAQ Library	Framework for providing configuration information
SUNWescp1	Common Config Reader Sun Fire V125/V210/V215/V240/V245 and Netra 240/210 platform support	Configuration reader platform support for the Sun Fire V125,V210,V215,V240,V245, and Netra 240/210
SUNWescf1	Common Config Reader Sun Fire V250 platform support	Configuration reader platform support for the Sun Fire V250
SUNWesch1	Common Config Reader Sun Fire V440/V445 platform support	Configuration reader platform support for the Sun Fire V440/V445
SUNWescn1	Common Config Reader Netra 440 platform support	Configuration reader platform support for the Netra 440
SUNWeser1	Common Config Reader Sun Fire T1000 platform support	Configuration reader platform support for the Sun Fire T1000
SUNWeson1	Sun Management Center Common Config Reader Sun Fire T2000/Netra T2000,T5220,T5440/Sun Blade T6300,T6320,T6340/SE T5220,T5120,T5140,T5240,T5440/SPARC T3-1,T3-1B,T3-2,T3-4/Netra SPARC T3-1, Netra SPARC T4-1 Platform Support	Configuration reader platform support for the Sun Fire T2000, Netra T2000, T5220, T5440, Sun Blade T6300, T6320, T6340, SE T5220, T5120, T5140, T5240, T5440, SPARC T3-1, T3-1B, T3-2, T3-4, Netra SPARC T3-1, Netra SPARC T4-1.
SUNWmasf	Sun SNMP management agent for Sun Fire, Netra, Sun Blade, and Sun SPARC Enterprise systems	SNMP agent common components
SUNWmasfr	Sun SNMP management agent for Sun Fire, Netra, Sun Blade, and Sun SPARC Enterprise systems	Startup and configuration scripts for the SNMP agent

To upgrade the software, you must remove the existing software before reinstalling the new version. For more information, see [“Uninstalling the Software” on page 11](#).

Effects on System Files

When you install the packages, a new startup file is created in `/etc/init.d`, as shown in the following table, with links to `/etc/rcn.d`.

TABLE 3 Startup Script

Component	Startup Script	Package Name	Package Description
Agent	masfd	SUNWmasfr	Configuration and startup script for SNMP agent

After installation, the following MIBs, supported by the agent, are located in the directory `/opt/SUNWmasf/lib/mibs`. All other MIBs in that directory are included for reference purposes.

TABLE 4 MIB Files

MIB	Function
ENTITY-MIB.txt	Describes physical and logical entities
RFC1155-SMI.txt	Defines additional object types used by other MIBS
RFC1213-MIB.txt	Models network interfaces (note, this agent only supports system part)
SUN-PLATFORM-MIB.txt	Extends the Entity MIB to provide additional information about hardware components

Installing the SNMP Software

This section includes the procedures for installing the monitoring software.

Before installing the software, ensure that:

- You have the requisite level of the Oracle Solaris OS installed on both the domain or target, and on the platform agent server (see [“Oracle Solaris Operating System” on page 2](#)).
- You have installed all the necessary patches (see [“Oracle Solaris OS Patches” on page 2](#)).
- If you are installing on a domain in a logical domains environment, you must install the software on the *control* domain.

When you are certain that your system meets all these requirements, you can proceed with installing the SNMP software.

▼ Install the SNMP Agent

1. Unzip the *SNMP-zip* file:

```
$ zcat unzip SNMP-zip | tar xvf -
```

2. Ensure that you are the superuser before proceeding with installation.

3. Change to the directory where the zip file was extracted (at the root of the packages provided by the zip file).

You can start installation from a different directory. In that case, when using the `pkgadd(1M)` command (as shown in [Step 4](#)), you must specify the path of the root of the directory hierarchy where the files were extracted using the `-d` option (rather than `-d .` as shown in [Step 4](#)).



Caution – If you have installed Sun Management Center, you cannot run both Sun Management Center and this agent at the same time on any chip multithreaded (CMT) platform. Otherwise, you can skip to [Step 5](#).

4. Install the support for platform instrumentation by doing one of the following depending on your platform:

- Install the Sun Fire V125/V210/V215/V240/V245 and Netra 210/240 instrumentation:

```
# pkgadd -d . SUNWescd1 SUNWescpl
```

- Install the Sun Fire V250 instrumentation.

```
# pkgadd -d . SUNWescd1 SUNWescf1
```

- Install the Sun Fire V440 and V445 instrumentation.

```
# pkgadd -d . SUNWescd1 SUNWesch1
```

- Install the Netra 440 instrumentation.

```
# pkgadd -d . SUNWescd1 SUNWescn1
```

- Install the Sun Fire T1000 instrumentation.

```
# pkgadd -d . SUNWeser1 SUNWespd1 SUNWescd1
```

- Install the instrumentation for: Sun Fire T2000, Netra T2000, T5220, T5440, Sun Blade T6300, T6320, T6340, SE T5220, T5120, T5140, T5240, T5440, SPARC T3-1, T3-1B, T3-2, T3-4, Netra SPARC T3-1, Netra SPARC T4-1.

```
# pkgadd -d . SUNWeson1 SUNWespd1
```

5. Install the SNMP agent.

```
# pkgadd -d . SUNWmasf SUNWmasfr
```

6. Ensure that the packages have been installed properly.

- Display information for the installed packages using `pkginfo`. For example:

```
# pkginfo SUNWmasfr
system      SUNWmasfr      Sun SNMP Management Agent for Sun Fire and Netra Systems
```

- Ensure that the following files now exist:

```
/etc/init.d/masfd
/etc/rc{0..2,S}.d/K40masfd
/etc/rc3.d/S80masfd
/opt/SUNWmasf/lib/mibs
```

You are now ready to configure the SNMP agent.

▼ Configure the SNMP Agent

After installation, you must configure the agent before you attempt to start it. A full description of the configuration options for the SNMP agent is provided in the *Sun SNMP Management Agent Administration Guide for Sun Supported Servers*. Refer to the “Configuration Files” chapter.

Before using the agent, you must assign it a network port to use. In deciding which network port to use, consider:

- Whether other SNMP agents might be installed on the system
- Where management applications might attempt to discover SNMP agents

Note – Use a port other than 161 for SNMP access to the agent provided by this product to ensure that this port is available for use by other agents, such as `snmpdxd(1M)` and Sun Management Center. The conventional port for SNMP access is port 161 for data. By default, the Oracle Solaris `snmpdx` daemon uses this port.

1. Configure the SNMP agent using the `/etc/opt/SUNWmasf/conf/snmpd.conf` file.

2. Set the port number by adding a line to the file in the form:

```
agentaddress      9161
```

This setting enables the agent to communicate on port 9161. Ensure that the port you select is not currently in use by another application. If you are using SNMPv1 or SNMPv2c, no further configuration is required unless you want to use traps. In that case, you must specify the trap destinations. Refer to the “Configuration Files” chapter in the *Sun SNMP Management Agent Administration Guide for Sun Supported Servers* for more information.

▼ Start the SNMP Agent

1. Restart the Platform Information and Control Library (PICL) daemon:

```
# svcadm restart picl
```

2. Start the SNMP agent:

```
# /etc/init.d/masfd start
```

3. Confirm that the agent is running correctly:

```
# ps -ef | fgrep snmpd
```

You should see a line of the form:

```
root 29394  1 0 Feb 18 ?  4:11 /opt/SUNWmasf/sbin/snmpd
```

If you do not see this output, review the `/var/adm/messages` log file to locate any error messages from the agent. For more information on troubleshooting, see the “Troubleshooting” chapter in the *Sun SNMP Management Agent Administration Guide for Sun Supported Servers*.

On subsequent reboots, the agent starts automatically without any user intervention.

4. Verify that the agent is running.

Ensure that the agent is running, by typing:

```
# netstat -anv | grep agent_port
```

For example, where *agent_port* is 9161:

```
# netstat -anv | grep 9161
*.9161      Idle
```

You might experience a delay of up to 15 minutes before seeing the response to this `netstat` command.

Once the agent is fully operational, look in the `syslog` log file for a string similar to this:

```
NET-SNMP version 5.4.2.1
```

You might experience a delay of up to 15 minutes before the string appears in the file.

Uninstalling the Software

To uninstall SNMP, use the `pkgrm(1M)` command to remove the packages you installed. This section specifies all the relevant files and links to remove for various platforms.

▼ Uninstall the Software



Caution – If you have also installed Sun Management Center, remove only the SNMP-specific packages `SUNWmasfr` and `SUNWmasf`.

- **Complete one of the following steps, depending on your platform:**
 - Remove the Sun Fire V125/V210, V215, V240, V245, and Netra 210/240 platform agent packages from the platform agent server:

```
# pkgrm SUNWmasfr SUNWmasf SUNWescpl SUNWescdl
```

- Remove the Sun Fire V250 platform agent packages from the platform agent server:

```
# pkgrm SUNWmasfr SUNWmasf SUNWescfl SUNWescdl
```

- Remove the Sun Fire V440/V445 platform agent packages from the platform agent server:

```
# pkgrm SUNWmasfr SUNWmasf SUNWeschl SUNWescdl
```

- Remove the Netra 440 platform agent packages from the platform agent server.

```
# pkgrm SUNWmasfr SUNWmasf SUNWescnl SUNWescdl
```

- Remove the Sun Fire T1000 platform agent packages from the platform agent server:

```
# pkgrm SUNWmasfr SUNWmasf SUNWescdl SUNWespd1 SUNWeser1
```

- Remove the agent packages from the platform agent server for: Sun Fire T2000, Netra T2000, T5220, T5440, Sun Blade T6300, T6320, T6340, SE T5220, T5120, T5140, T5240, T5440, SPARC T3-1, T3-1B, T3-2, T3-4, Netra SPARC T3-1, Netra SPARC T4-1.

```
# pkgrm SUNWmasfr SUNWmasf SUNWespd1 SUNWeson1
```

Known Issues

This section contains general issues and specific issues concerning the Sun SNMP Management Agent Version 1.6.2 software.

General Issues

This section describes general known issues about this release of Sun SNMP Management Agent software that are broader than a specific change request (CR) number. Workarounds are provided where available.

Restart PICL Before Running SNMP

Before you run the SNMP daemon, restart the Platform Information and Control Library (PICL) daemon by typing:

```
# svcadm restart picl
```

Do Not Run SNMP MASF and Sun Management Center at the Same Time

On sun4v servers, running the SNMP MASF and the Sun Management Center software at the same time is not supported.

Bugs Affecting SNMP Management Agent 1.6.2 Software

This section summarizes the bugs that you might encounter when using this version of the software. The issue descriptions are in numerical order by change request (CR). Workarounds are provided where available.

Fan Module 5 is not Hot-Swappable in Netra SPARC T3-1 and Netra SPARC T4-1 Servers (CR 7043996)

If the SNMP software performs an `snmpget` command on the object `sunPlatCircuitPackHotSwappable` for Fan Module 5, the `true(1)` variable is returned. This is incorrect. Fan Module 5 is not hot swappable. The server has to be powered off to replace Fan Module 5.

Workaround: None

Setting MASF SNMP Agent as Subagent of SMA Causes Harmless Messages (CR 6850760)

When the MASF SNMP agent is configured as a subagent of SMA and started, you will see an error message on the console similar to this:

```
# Jun 10 12:46:07 dt88-192 snmpd[3258]: registering pdu failed: 263!  
Jun 10 12:46:07 dt88-192 last message repeated 64 times
```

Workaround: You can safely ignore these error messages.

SPARC T3-1B Server Module: When a NEM or Power Supply is Hotplugged, FRU Data is not Displayed (6992950)

In a SPARC T3-1B server, the FRU data is not displayed when a NEM or a power supply is hotplugged.

Workaround: Type this ILOM CLI command to obtain the FRU data:

```
-> show FRU-NAC-name fru_serial_number
```