



# Sun™ Integrated Lights Out Manager 2.0 Supplement for the Sun Netra™ X4450 Server

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# Contents

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**Preface** vii

**1. ILOM for the Sun Netra X4450 Server** 1

Platform Specific ILOM Features 1

ILOM Control of the Telco Alarm Port 1

ILOM Features Not Supported on the Sun Netra X4450 Server 2

**2. Managing the Service Processor** 3

Storing Customer Information Using the SP 3

▼ To Change System Identification Information Using the CLI 3

▼ To Change Customer Identification Information Using the Web Interface 4

Changing Service Processor Settings to Factory Defaults 4

▼ To Reset the Service Processor Settings to Factory Default Values Using the CLI 5

▼ To Reset the Service Processor Settings to Factory Defaults Using the Web Interface 5

Managing SSH Server Settings 6

▼ To Change the Type of SSH Keys Using the CLI 6

▼ To Generate a New Set of SSH Keys Using the CLI 7

▼ To Restart the SSH Server Using the CLI 7

▼ To Enable or Disable the Remote Connection Using the CLI 7

- ▼ To Manage SSH Server Settings Using the Web Interface 7
- Managing Alarms Indicators 9
  - ▼ To Set an Alarm Indicator On or Off Using the CLI 9
  - ▼ To Reset an Alarm Indicator Using Web Interface 9
  - ▼ To Get Status for All Alarm Indicators 11
  - ▼ To Get Status for a Single Alarm Indicator 11
  - ▼ To Turn Off an Alarm Indicator 11
  - ▼ To Turn On an Alarm Indicator 11
- A. Sun Netra X4450 ILOM Reference Information 13**
  - Components on the Sun Netra X4450 Server 13
  - Sensors on the Sun Netra X4450 Server 14
  - Indicators on the Sun Netra X4450 Server 16
  - SNMP Traps on the Sun Netra X4450 Server 17
- Index 23**

# Tables

---

<a href="#">TABLE A-1</a>	Sun Netra X4450 Components	13
<a href="#">TABLE A-2</a>	Sun Netra X4450 Server Sensors	14
<a href="#">TABLE A-3</a>	Sun Netra X4450 Indicators	16
<a href="#">TABLE A-4</a>	Traps for All Hot Pluggable Components	17
<a href="#">TABLE A-5</a>	Traps for BIOS Reported Errors	17
<a href="#">TABLE A-6</a>	Traps Corresponding to Sensors and Components in the SDR	18



# Preface

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This supplement contains information about the Integrated Lights Out Manager (ILOM) service processor (SP) on the Sun Netra™ X4450 server. The SP enables you to remotely manage and administer your server. You should be an experienced system administrator with a knowledge of UNIX® commands.

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## Related Documentation

The following table lists the documentation for this product. The online documentation is available at:

<http://docs.sun.com/app/docs/prod/server.nebs>

<b>Application</b>	<b>Title</b>	<b>Part Number</b>	<b>Format</b>	<b>Location</b>
Installation	<i>Sun Netra X4450 Server Installation Guide</i>	820-4015	PDF and HTML	Online
Service	<i>Sun Netra X4450 Server Service Manual</i>	820-4017	PDF and HTML	Online
Issues and updates	<i>Sun Netra X4450 Server Product Notes</i>	820-4018	PDF and HTML	Online

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<b>Application</b>	<b>Title</b>	<b>Part Number</b>	<b>Format</b>	<b>Location</b>
Platform safety and compliance	<i>Sun Netra X4450 Server Safety and Compliance Guide</i>	820-4183	PDF and HTML	Online
Generic safety	<i>Important Safety Information for Sun Hardware Systems</i>	816-7190	PDF	Online
Getting started	<i>Sun Netra Server Getting Started Guide</i>	820-3016	Printed and PDF	Shipping kit and online

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# ILOM for the Sun Netra X4450 Server

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This chapter introduces ILOM for the Sun Netra X4450 server.

This chapter contains the following sections:

- [“Platform Specific ILOM Features”](#) on page 1
- [“ILOM Control of the Telco Alarm Port”](#) on page 1
- [“ILOM Features Not Supported on the Sun Netra X4450 Server”](#) on page 2

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## Platform Specific ILOM Features

ILOM operates on many platforms, supporting features that are common to all platforms. There are some ILOM features that belong to a subset of platforms and not to all. This document describes features that belong to the Sun Netra X4450, augmenting the set of features described in the *Sun Integrated Lights Out Manager 2.0 User's Guide*.

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## ILOM Control of the Telco Alarm Port

When an ILOM alarm is asserted, the proper LED is turned on and the corresponding alarm signals are sent to the Alarm port on the rear panel. When an alarm is turned off, the LED is turned off and the alarm port signal is reset. See for more information.

In a telecommunications environment, the Alarm port connects to the central office alarming system. See the *Sun Netra X4450 Server Service Manual* for alarm connector pinouts and signals.

---

## ILOM Features Not Supported on the Sun Netra X4450 Server

Among the ILOM features supported on other platforms, ILOM does not support the following features on this server:

- ILOM Remote Console
- Chassis Monitoring Module (CMM) features, such as single sign on

The remainder of this document describes the ILOM features that are supported on the server.

## Managing the Service Processor

---

This chapter contains information on ILOM properties on the Sun Netra X4450 server that augment the array of properties that are common to ILOM on other platforms. In particular, this chapter covers properties in the `/SP` namespace. This chapter consists of:

- “Storing Customer Information Using the SP” on page 3
- “Changing Service Processor Settings to Factory Defaults” on page 4
- “Managing SSH Server Settings” on page 6

---

### Storing Customer Information Using the SP

This section describes ILOM features that enable you to store information (for purposes such as inventory control or site resource management) on the SP and FRU PROMs.

#### ▼ To Change System Identification Information Using the CLI

Use the `/SP system_identifier` property to store customer identification information.

- At the `->` prompt, type:

```
-> set /SP system_identifier=data
```

## ▼ To Change Customer Identification Information Using the Web Interface

1. Log into the ILOM web interface as Administrator (`root`) to open the web interface.
2. Select System Information --> Identification Information.

FIGURE 2-1 ILOM Identification Information Window



The screenshot displays the Sun Integrated Lights Out Manager (ILOM) web interface. At the top, there is a navigation bar with buttons for 'ABOUT', 'REFRESH', and 'LOG OUT'. Below this, the user role is identified as 'Administrator (root)' and the SP Hostname is 'SUNSP001B24BE4B2F'. The main title is 'Sun™ Integrated Lights Out Manager' with the Java logo and 'Sun™ Microsystems, Inc.' on the right. A horizontal menu contains 'System Information', 'System Monitoring', 'Configuration', 'User Management', 'Remote Control', and 'Maintenance'. Under 'System Information', there are sub-menus for 'Versions', 'Session Time-Out', 'Components', and 'Identification Information'. The 'Identification Information' sub-menu is selected, showing a form with two input fields: 'SP Hostname' (containing 'SUNSP001B24BE4B2F') and 'SP System Identifier' (containing 'my\_system'). A 'Save' button is located below the fields.

3. View the SP Hostname.
4. Edit the SP System Identifier field.
5. Click Save.

---

## Changing Service Processor Settings to Factory Defaults

This section describes how to set service processor settings back to the factory defaults.

## ▼ To Reset the Service Processor Settings to Factory Default Values Using the CLI

Use the `reset_to_defaults` property to set all ILOM configuration properties back to their factory default values. The `all` option sets the ILOM configuration and all user information back to the factory default values.

1. At the `->` prompt, type:

```
-> set /SP reset_to_defaults=all
```

where `reset_to_defaults` can be set to one of the following:

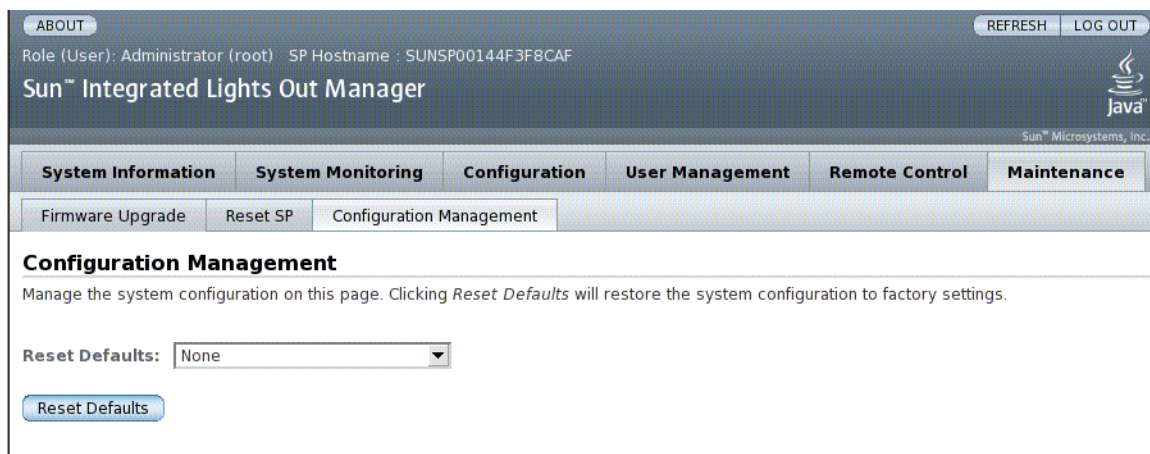
- `none` – Make no changes.
- `configuration` – Preserve the user database.
- `all` – Reset (clear) the user database.

2. Reset the service processor so that the new property value can take effect.

## ▼ To Reset the Service Processor Settings to Factory Defaults Using the Web Interface

1. Log into the ILOM web interface as Administrator (`root`) to open the web interface.
2. Select Maintenance --> Configuration Management.
3. Select a Reset Defaults value.

FIGURE 2-2 ILOM Configuration Management Window



4. Click Save.

## Managing SSH Server Settings

Use the procedures in this section to manage the SSH server settings.

### ▼ To Change the Type of SSH Keys Using the CLI

Use the `set /SP/services/ssh generate_new_key_type` command to change the type of Secure Shell (SSH) host keys generated on your server. After changing the type, use the `set /SP/services/ssh generate_new_key_action` command to generate a new set of keys of the new type.

- At the `->` prompt, type:

```
-> set /SP/services/ssh generate_new_key_type=value
```

where *value* can be `rsa` or `dsa`.

## ▼ To Generate a New Set of SSH Keys Using the CLI

Use the `set /SP/services/ssh generate_new_key_action` command to generate a new set of Secure Shell (SSH) host keys.

- At the `->` prompt, type:

```
-> set /SP/services/ssh generate_new_key_action=true
```

## ▼ To Restart the SSH Server Using the CLI

Use the `set /SP/services/ssh restart_sshd_action` command to restart the SSH server after you have generated new host keys using the `set /SP/services/ssh generate_new_key_action` command. This reloads the keys into the server's dedicated data structure in memory.

- At the `->` prompt, type:

```
-> set /SP/services/ssh restart_sshd_action=true
```

## ▼ To Enable or Disable the Remote Connection Using the CLI

Use the `/SP/services/ssh state` property with the `set` command to enable or disable the remote connection.

- At the `->` prompt, type:

```
-> set /SP/services/ssh state=value
```

where *value* is enabled or disabled.

## ▼ To Manage SSH Server Settings Using the Web Interface

1. Log into the ILOM web interface as Administrator (`root`) to open the web interface.
2. Select Configuration --> SSH Server Settings.

**FIGURE 2-3** ILOM SSH Server Settings

The screenshot shows the Sun Integrated Lights Out Manager (ILOM) interface. At the top, it displays the user role as Administrator (root) and the SP Hostname as SUNSP00144F3F8CAF. The main navigation bar includes tabs for System Information, System Monitoring, Configuration, User Management, Remote Control, and Maintenance. The Configuration tab is active, and the SSH Server sub-tab is selected.

**SSH Server Settings**

Configure Secure Shell server access and key generation. Newly generated keys are not used until the SSH server is restarted. When the SSH server is restarted or disabled, any CLI sessions running over SSH will be immediately terminated.

**SSH Server:** Enabled

**RSA Key:** Generate RSA Key

**RSA Fingerprint:** e1:92:e7:b2:dc:74:95:e1:7e:f9:18:3a:ab:54:7e:16

**RSA Key Length:** 1024 bits

**RSA Public Key:**

```

AAAAAB3NzaC1yc2EAAAABIwAAAIEAvERT9pFm3sUg78KI7Qr
+1ws1mbwv15S01/hMTj++1jw1ebI8+u+jvHln3zlhOROURJc
V9KymcJnRwE1jWRjmc+UkLJWUezZ9xg7M1jFmsjqHQbmsH61
6PrSDhpcRV0kHS7L8yDT58HgHlHy6pprakG7Yd9cHek221uO
ErEqUVU=
    
```

**DSA Key:** Generate DSA Key

**DSA Fingerprint:** d7:03:28:55:cc:cc:4f:c5:06:99:da:7b:ec:4c:77:1a

**DSA Key Length:** 1024 bits

**DSA Public Key:**

```

AAAAAB3NzaC1kc3MAAACBAIbgDF+t1ghTF1L1tvSHN4ELU5ZQ
mX0RuL7BdKwnt0iqTgWqo6FupvBsB1k29UfVJAP2FEnw6kA0
GgFN2UC3yZr1MtLw4Ufg00bNcZwLoI05q8ETZGypLL1H80Fp
xJzGtqcnKxSALcy+GWF4WMB1Q0o4sbknA3AY+jszTIehcnRD
AAAAAPQDAvfDKBm+3/xqh34ThFCq7YhnxHwAAAIb5+aiYIHhE0
GgR8SG19NvDDD1cC70p0x91rFR/rIV011ZCPcoCVJ6663E6q
k+PwHoF5Sj4OpLXhlfauLo6uxM6AatLgHK6bR7zrjM1D6wZED
IdFXT4VTyEa8+uoRQiKoorDggKByCq+g71s+uW/A5oEcVKFy
QxKeRp1YQI+6gmKR/QAAAIbzt61cnhE1RczyA0dtIw8AP1nHr
L3cu7ZiI0Zn1rkc7IOo21UUP05JF21MEYHE8Qc/4qzjZvmP
PHOCLanquJjQMwrmHizUheZGpMsIe9q2/qhET8UoBSQ9T0VaQ
qQhJr1r5jotcBDxRwHRIHF1LIFEApTNaQiC+a865P8VY8PPUB
MQ==
    
```

3. Select an action from the SSH server pulldown menu.

4. Click **Generate RSA Key** or **Click Generate DSA Key** to generate a new key type and a new key.

If you have generated a new key, restart the SSH server for the new key to take effect.



---

**Note** – When the SSH server is restarted or disabled, any CLI sessions running over SSH will be terminated immediately.

---

## Managing Alarms Indicators

The alarm indicators are managed using the ILOM CLI or web interface, or the `IPMITool` utility. Setting an alarm indicator to ON enables the corresponding alarm on the rear panel alarm port and the front panel alarm LED. Use the following procedures to set or reset an alarm.

### ▼ To Set an Alarm Indicator On or Off Using the CLI

Use the `/SYS/ALARM/` `value` property with the `set` command to set an alarm on or off.

- At the `->` prompt, type one of the following commands:

```
-> set /SYS/ALARM/CRITICAL value=state
-> set /SYS/ALARM/MAJOR value=state
-> set /SYS/ALARM/MINOR value=state
-> set /SYS/ALARM/USER value=state
```

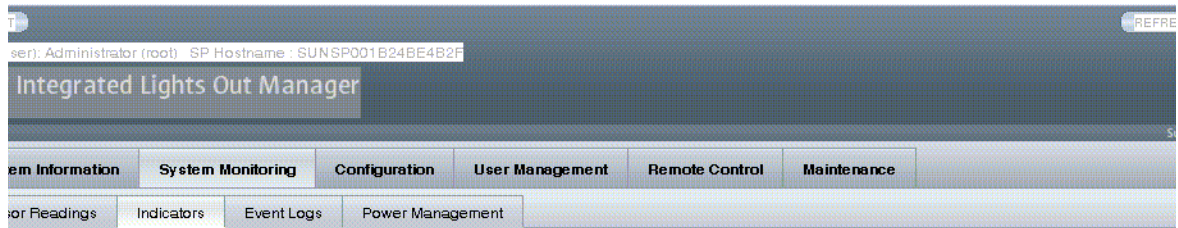
where `state` is `on` or `off`.

### ▼ To Reset an Alarm Indicator Using Web Interface

The ILOM web interface *only* allows you to turn off an alarm indicator that has been turned on.

1. Log in to the ILOM web interface as Administrator (`root`) to open the web interface.
2. Select System Monitoring `->` Indicators.

**FIGURE 2-4** ILOM System Monitoring



**Indicators**

View the system Locator indicators and view the status of other indicators from this page. To modify an indicator, select the radio button next to that indicator, then choose an option from the Action drop down list. The Locate indicators are the white LEDs.

Indicator Name	Status
LED Off	Off
LED to Fast Blink	Off
:/SYS/MB/P1/SERVICE	Off
:/SYS/MB/MCH/DA0/SERVICE	Off
:/SYS/MB/MCH/DA1/SERVICE	Off
:/SYS/MB/MCH/DA2/SERVICE	Off
:/SYS/MB/MCH/DA3/SERVICE	Off
:/SYS/MB/MCH/DB0/SERVICE	Off
:/SYS/MB/MCH/DB1/SERVICE	Off
:/SYS/MB/MCH/DB2/SERVICE	Off
:/SYS/MB/MCH/DB3/SERVICE	Off
:/SYS/MB/MCH/DC0/SERVICE	Off
:/SYS/MB/MCH/DC1/SERVICE	Off
:/SYS/MB/MCH/DC2/SERVICE	Off
:/SYS/MB/MCH/DC3/SERVICE	Off
:/SYS/MB/MCH/DD0/SERVICE	Off
:/SYS/MB/MCH/DD1/SERVICE	Off
:/SYS/MB/MCH/DD2/SERVICE	Off
:/SYS/MB/MCH/DD3/SERVICE	Off
:/SYS/OK	On
:/SYS/LOCATE	Off
:/SYS/SERVICE	On

3. Select the radio button next to that indicator, then choose an option from the Action drop down list.
4. Click Save.

## ▼ To Get Status for All Alarm Indicators

- Type:

```
ipmitool -H ilom_ipaddr -U user -P password sunoem sbled get all
```

where *ilom\_ipaddr* is the server's ILOM IP address, *user* is the user name, *password* is the password.

## ▼ To Get Status for a Single Alarm Indicator

- Type:

```
ipmitool -H ilom_ipaddr -U user -P password sunoem sbled get alarm
```

where *ilom\_ipaddr* is the server's ILOM IP address, *user* is the user name, *password* is the password, and *alarm* values are CRITICAL\_ALARM, MAJOR\_ALARM, MINOR\_ALARM, or USER\_ALARM.

## ▼ To Turn Off an Alarm Indicator

- Type:

```
ipmitool -H ilom_ipaddr -U user -P password sunoem sbled set alarm off
```

where *ilom\_ipaddr* is the server's ILOM IP address, *user* is the user name, *password* is the password, and *alarm* values are CRITICAL\_ALARM, MAJOR\_ALARM, MINOR\_ALARM, or USER\_ALARM.

## ▼ To Turn On an Alarm Indicator

- Type:

```
ipmitool -H ilom_ipaddr -U user -P password sunoem sbled set alarm on
```

where *ilom\_ipaddr* is the server's ILOM IP address, *user* is the user name, *password* is the password, and *alarm* values are CRITICAL\_ALARM, MAJOR\_ALARM, MINOR\_ALARM, or USER\_ALARM.



## Sun Netra X4450 ILOM Reference Information

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This appendix contains reference material about the Sun Netra X4450 server.

Topics include:

- [“Components on the Sun Netra X4450 Server” on page 13](#)
- [“Sensors on the Sun Netra X4450 Server” on page 14](#)
- [“Indicators on the Sun Netra X4450 Server” on page 16](#)
- [“SNMP Traps on the Sun Netra X4450 Server” on page 17](#)

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## Components on the Sun Netra X4450 Server

[TABLE A-1](#) shows the components on the Sun Netra X4450 server.

**TABLE A-1** Sun Netra X4450 Components

Name	Description
<code>/SYS</code>	Host system
<code>/SYS/ALARM</code>	Indicator module
<code>/SYS/MB</code>	Motherboard
<code>/SYS/BIOS</code>	BIOS
<code>/SYS/CPLD</code>	NVRAM
<code>/SYS/MB/MCH/Dxy</code>	DIMM, where <i>y</i> equals the channel and <i>x</i> equals the DIMM

**TABLE A-1** Sun Netra X4450 Components (*Continued*)

Name	Description
/SYS/MB/NETx	Network interface, where <i>x</i> equals the interface number
/SYS/PCI_MEZZ	PCI mezzanine tray
/SYS/PDB	Power distribution board
/SYS/PSx	Power supply, where <i>x</i> equals the number of the drive
/SYS/SASBP	Disk drive backplane/SAS card
/SYS/SP	Service processor
/SYS/SP/NET0	Network interface (BMC controller)

## Sensors on the Sun Netra X4450 Server

TABLE A-2 shows the sensors on your server.

**TABLE A-2** Sun Netra X4450 Server Sensors

Type	Name	Description	Unit of Measure or Value
Entity presence	/SYS/MB/Px/PRSNT	Motherboard, CPU, where <i>x</i> equals the number of the CPU	Present or absent
	/SYS/SASBP/PRSNT	Disk backplane (SAS controller)	Present or absent
	/SYS/PSx/PRSNT	Power supply, where <i>x</i> equals the number of the power supply	Present or absent
	/SYS/HDDx/PRSNT	Disk drive, where <i>x</i> equals the number of the drive	Present or absent
	/SYS/PSx/I_IN	Power supply input current, where <i>x</i> equals the number of the power supply	Amps
	/SYS/PSx/I_OUT	Power supply output current, where <i>x</i> equals the number of the power supply	Amps
	/SYS/FT0/Fx/TACH	System fan, where <i>x</i> equals the number of the fan	RPM
	/SYS/FT1/Fx/TACH	Hard drive fan, where <i>x</i> equals the number of the drive	RPM

**TABLE A-2** Sun Netra X4450 Server Sensors (*Continued*)

Type	Name	Description	Unit of Measure or Value
	/SYS/FT2/F0/TACH	Power distribution board fan	RPM
	/SYS/PS0/F0/TACH	Power supply fan	RPM
	/SYS/VPS	Source output power	Watts
	/SYS/PSx/INPUT_POWER	Power supply input power, where <i>x</i> equals the number of the power supply	Watts
	/SYS/PSx/OUTPUT_POWER	Power supply output power, where <i>x</i> equals the number of the power supply	Watts
Power supply	/SYS/PSx/VINOK	Power supply voltage OK, where <i>x</i> equals the number of the power supply	Deasserted or asserted
	/SYS/PSx/PWROK	Power supply power OK, where <i>x</i> equals the number of the power supply	Deasserted or asserted
	/SYS/PSx/CUR_FAULT	Power supply current fault, where <i>x</i> equals the number of the power supply	Deasserted or asserted
	/SYS/PSx/VOLT_FAULT	Power supply voltage fault, where <i>x</i> equals the number of the power supply	Deasserted or asserted
	/SYS/PSx/FAN_FAULT	Power supply fan fault, where <i>x</i> equals the number of the power supply	Deasserted or asserted
	/SYS/PSx/TEMP_FAULT	Power supply temperature fault, where <i>x</i> equals the number of the power supply	Deasserted or asserted
Temperature	/SYS/MB/T_AMB0	Motherboard ambient temperature 0	Degrees C
	/SYS/MB/T_AMB1	Motherboard ambient temperature 1	Degrees C
	/SYS/MB/T_AMB2	Motherboard ambient temperature 2	Degrees C
	/SYS/MB/T_AMB3	Motherboard ambient temperature 3	Degrees C
	/SYS/PSx/T_AMB	Power supply ambient temperature, where <i>x</i> is the number of the power supply	Degrees C

**TABLE A-2** Sun Netra X4450 Server Sensors (*Continued*)

Type	Name	Description	Unit of Measure or Value
Voltage	/SYS/ALARM/INPUT	Alarm input state	Deasserted or asserted
	/SYS/MB/Px/V_VCC	CPU voltage, where <i>x</i> is the number of the CPU	Volts
	/SYS/MB/V_+12V	Motherboard +12V	Volts
	/SYS/MB/V_VTT	Motherboard VTT	Volts
	/SYS/MB/V_+1V5	Motherboard +1.5V	Volts
	/SYS/MB/V_+3V3	Motherboard +3.3V	Volts
	/SYS/MB/V_+5	Motherboard +5V	Volts
	/SYS/MB/V_NIC	Motherboard NIC	Volts
	/SYS/MB/V_+3V3STBY	Motherboard +3.3V standby	Volts
	/SYS/MB/V_+2V5STBY	Motherboard +2.5V standby	Volts
	/SYS/MB/V_+1V8	Motherboard +1.8V	Volts
	/SYS/PDB/+5V0_POK	Power distribution board +5V	Deasserted or asserted
	/SYS/PSx/V_IN	Power supply input voltage, where <i>x</i> equals the number of the power supply	Volts
	/SYS/PSx/V_OUT	Power supply output voltage, where <i>x</i> equals the number of the power supply	Volts

## Indicators on the Sun Netra X4450 Server

TABLE A-3 shows the indicators on your server.

**TABLE A-3** Sun Netra X4450 Indicators

Type	Name
System	/SYS/LOCATE
	/SYS/OK
	/SYS/SERVICE
Alarm	/SYS/ALARM/CRITICAL
	/SYS/ALARM/MAJOR



**TABLE A-3** Sun Netra X4450 Indicators

Type	Name
	/SYS/ALARM/MINOR
	/SYS/ALARM/USER
Disk drive	/SYS/HDDx/SERVICE, where <i>x</i> equals the number of the drive
	/SYS/HDDx/OK2RM, where <i>x</i> equals the number of the drive
CPU	/SYS/MB/Px/SERVICE, where <i>x</i> equals the number of the drive
DIMM	/SYS/MB/MCH/Dxy/SERVICE, where <i>x</i> equals the number of the channel and <i>y</i> equals the number of the DIMM

## SNMP Traps on the Sun Netra X4450 Server

This section contains the SNMP traps from SUN-HW-TRAP-MIB on the Sun Netra X4450 server.

**TABLE A-4** Traps for All Hot Pluggable Components

Trap
sunHwTrapFruInserted
sunHwTrapFruRemoved

**TABLE A-5** Traps for BIOS Reported Errors

Trap
sunHwTrapPreOSError

**TABLE A-6** Traps Corresponding to Sensors and Components in the SDR

Trap	Sensor or Component
sunHwTrapComponentError	/SYS/ALARM/INPUT /SYS/NMIBTN-HIDDEN /SYS/PDB/+5V0_POK ACPI
sunHwTrapComponentOk	/SYS/ALARM/INPUT /SYS/PDB/+5V0_POK
sunHwTrapFanSpeedCritThresholdDeasserted	/SYS/PS0/F0/TACH /SYS/PS1/F0/TACH
sunHwTrapFanSpeedCritThresholdExceeded	/SYS/PSx/F0/TACH, where <i>x</i> equals the number of the power supply
sunHwTrapFanSpeedFatalThresholdDeasserted	/SYS/FTx/Fy/TACH /SYS/PSz/F0/TACH where <i>x</i> equals the number of the fan tray, <i>y</i> equals the number of the fan, and <i>z</i> equals the number of the power supply
sunHwTrapFanSpeedFatalThresholdExceeded	/SYS/FTx/Fy/TACH /SYS/PSz/F0/TACH where <i>x</i> equals the number of the fan tray, <i>y</i> equals the number of the fan, and <i>z</i> equals the number of the power supply
sunHwTrapPowerSupplyError	/SYS/PSx/CUR_FAULT /SYS/PSx/FAN_FAULT /SYS/PSx/PWROK /SYS/PSx/TEMP_FAULT /SYS/PSx/VINOK /SYS/PSx/VOLT_FAULT where <i>x</i> equals the number of power supply
sunHwTrapPowerSupplyOk	/SYS/PSx/CUR_FAULT /SYS/PSx/FAN_FAULT /SYS/PSx/PWROK /SYS/PSx/TEMP_FAULT /SYS/PSx/VINOK /SYS/PSx/VOLT_FAULT where <i>x</i> equals the number of power supply
sunHwTrapSensorCritThresholdDeasserted	/SYS/VPS

**TABLE A-6** Traps Corresponding to Sensors and Components in the SDR (Continued)

Trap	Sensor or Component
sunHwTrapSensorCritThresholdExceeded	/SYS/VPS
sunHwTrapSensorFatalThresholdDeasserted	/SYS/VPS
sunHwTrapSensorFatalThresholdExceeded	/SYS/VPS
sunHwTrapSensorNonCritThresholdExceeded	/SYS/VPS
sunHwTrapSensorThresholdOk	/SYS/VPS
sunHwTrapTempCritThresholdDeasserted	/SYS/MB/T_AMB0
	/SYS/MB/T_AMB1
	/SYS/MB/T_AMB2
	/SYS/MB/T_AMB3
sunHwTrapTempCritThresholdExceeded	/SYS/MB/T_AMB0
	/SYS/MB/T_AMB1
	/SYS/MB/T_AMB2
	/SYS/MB/T_AMB3
sunHwTrapTempNonCritThresholdExceeded	/SYS/MB/T_AMB0
	/SYS/MB/T_AMB1
	/SYS/MB/T_AMB2
	/SYS/MB/T_AMB3
sunHwTrapTempOk	/SYS/MB/T_AMB0
	/SYS/MB/T_AMB1
	/SYS/MB/T_AMB2
	/SYS/MB/T_AMB3
sunHwTrapVoltageCritThresholdDeasserted	/SYS/MB/V_+12V
	/SYS/MB/V_+1V5
	/SYS/MB/V_+1V8
	/SYS/MB/V_+2V5STBY
	/SYS/MB/V_+3V3
	/SYS/MB/V_+3V3STBY
	/SYS/MB/V_+5V
	/SYS/MB/V_NIC
	/SYS/MB/V_VTT
	/SYS/PSx/V_OUT
	where <i>x</i> equals the number of the power supply

**TABLE A-6** Traps Corresponding to Sensors and Components in the SDR *(Continued)*

<b>Trap</b>	<b>Sensor or Component</b>
sunHwTrapVoltageCritThresholdExceeded	/SYS/MB/V_+12V
	/SYS/MB/V_+1V5
	/SYS/MB/V_+1V8
	/SYS/MB/V_+2V5STBY
	/SYS/MB/V_+3V3
	/SYS/MB/V_+3V3STBY
	/SYS/MB/V_+5V
	/SYS/MB/V_NIC
	/SYS/MB/V_VTT
	/SYS/PSx/V_OUT
	where $x$ equals the number of the power supply
sunHwTrapVoltageFatalThresholdDeasserted	/SYS/MB/V_+12V
	/SYS/MB/V_+1V5
	/SYS/MB/V_+1V8
	/SYS/MB/V_+2V5STBY
	/SYS/MB/V_+3V3
	/SYS/MB/V_+3V3STBY
	/SYS/MB/V_+5V
	/SYS/MB/V_NIC
	/SYS/MB/V_VTT
	/SYS/PSx/V_OUT
	where $x$ equals the number of the power supply

**TABLE A-6** Traps Corresponding to Sensors and Components in the SDR *(Continued)*

<b>Trap</b>	<b>Sensor or Component</b>
sunHwTrapVoltageFatalThresholdExceeded	/SYS/MB/V_+12V /SYS/MB/V_+1V5 /SYS/MB/V_+1V8 /SYS/MB/V_+2V5STBY /SYS/MB/V_+3V3 /SYS/MB/V_+3V3STBY /SYS/MB/V_+5V /SYS/MB/V_NIC /SYS/MB/V_VTT /SYS/PSx/V_OUT where <i>x</i> equals the number of the power supply
sunHwTrapVoltageNonCritThresholdExceeded	/SYS/PSx/V_OUT where <i>x</i> equals the number of the power supply
sunHwTrapVoltageOk	/SYS/PSx/V_OUT where <i>x</i> equals the number of the power supply



# Index

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## Symbols

- /SP reset\_to\_defaults property, 5
- /SP system\_identifier property, 3
- /SP/services/ssh generate\_new\_key\_action property, 7
- /SP/services/ssh generate\_new\_key\_type property, 6
- /SP/services/ssh restart\_sshd\_action property, 7
- /SP/services/ssh state property, 7

## D

- defaults, resetting, 5

## F

- factory defaults, 5

## I

- ILOM properties
  - /SP reset\_to\_defaults, 5
  - /SP system\_identifier, 3
  - /SP/services/ssh generate\_new\_key\_action, 7
  - /SP/services/ssh generate\_new\_key\_type, 6
  - /SP/services/ssh restart\_sshd\_action, 7
  - /SP/services/ssh state, 7

