



# Sun Integrated Lights Out Manager 3.0 Supplement for the Sun Fire X4600 M2 Server

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# Preface

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The *Sun Integrated Lights Out Manager 3.0 Supplement for Sun Blade X4600 Server Module* provides supplemental, platform-specific documentation for Integrated Lights Out Manager (ILOM) firmware on the Sun Fire X4600 M2 Server.

This document supplements the common ILOM documentation in the Sun Integrated Lights Out Manager (ILOM) 3.0 Documentation collection. This collection is available for download at:

<http://docs.sun.com/app/docs/prod/int.lights.mgr30>

## Related Documents

To see a list of the Sun Fire X4600 M2 documentation, refer to the *Where to Find* document that is packed with your system and also posted at the product's documentation site.

Translated versions of some of these documents are available at the web product documentation page in Simplified Chinese, French, and Japanese. English documentation is revised more frequently and might be more up-to-date than the translated documentation. See [TABLE P-1](#) for more information.

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# Sun Online

**TABLE P-1** Sun Web Sites Related to the Sun Fire X4600 M2 Server

Sun Function	URL	Description
Sun Documentation	<a href="http://docs.sun.com">http://docs.sun.com</a>	You can navigate to the Sun Blade X6275 server module document page and then download PDF and view HTML documents.
Support	<a href="http://www.sun.com/support/">http://www.sun.com/support/</a>	Obtain technical support and download patches.
Training	<a href="http://www.sun.com/training/">http://www.sun.com/training/</a>	Learn about Sun courses.
Warranty	<a href="http://www.sun.com/service/support/warranty/index.html">http://www.sun.com/service/support/warranty/index.html</a>	Obtain specific details regarding your warranty.
Feedback	<a href="http://www.sun.com/hwdocs/feedback/">http://www.sun.com/hwdocs/feedback/</a>	Submit your comments. Please include the title and part number of your document with your feedback: <i>Sun Integrated Lights Out Manager 3.0 Supplement for the Sun Fire X4600 M2 Server</i> , part number 820-7756-10
Product Updates	<a href="http://www.sun.com/download/">http://www.sun.com/download/</a>	Find the Hardware Drivers section and click x64 Servers & Workstations. The Sun Blade X6275 server module site contains updates for firmware, drivers, and DVD/CD-ROM ISO images.

# Introduction

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This manual describes the differences between the common ILOM and the ILOM as implemented for the Sun Fire X4600 M2 Server.

This chapter consists of the following sections.

- [“Overview of the ILOM on the Sun Fire X4600 M2 Server” on page 1](#)
- [“Common ILOM Features Not Supported” on page 2](#)

Additional information is provided in the following chapter:

- [Chapter 2, Sensors and Indicators](#)

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## Overview of the ILOM on the Sun Fire X4600 M2 Server

The Integrated Lights Out Manager (ILOM) is system management firmware that allows you to manage your Sun server when the host system is powered down. This is possible because the ILOM runs on a separate Service Processor (SP) that is powered by the host system’s standby power.

The following interfaces provide network access to the ILOM: command-line interface (CLI), web interface, SNMP, and IPMI.

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**Note** – In order to establish a serial connection to the ILOM, you must connect a serial cable to a management connector on the rear of the server. Refer to the *Sun Fire X4600 M2 Server Service Manual* for more information.

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The ILOM also supports remote access to the host's system console through a network remote keyboard video and mouse (RKVM). The host's I/O to optical and floppy drives can be redirected to real and virtual drives on the network. This allows a remote user to perform most maintenance operations, including installing an operating system.

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## Common ILOM Features Not Supported

Not all common ILOM features are supported on every platform. On the Sun Fire X4600 M2 Server, the following features are not supported:

- CHASSIS MANAGEMENT MODULE (CMM) AND CHASSIS ILOM are features of Sun Blade modular systems. Rack mount systems do not utilize this technology.
- POWER POLICY, which allows the user to control of the way power is utilized, is not supported. Power Policy should not be confused with Power Monitoring, which is supported.



## Sensors and Indicators

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This chapter describes the sensors and indicators that can be accessed through the ILOM.

Sensors report physical information about the server, including voltages, temperatures, fan speeds, and installation and removal of components. Indicators report important server conditions.

All sensors and indicators are IPMI-compliant.

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### Sensors

**TABLE 2-1** Sensors

<b>Name</b>	<b>Description</b>
/SYS/DBP/HDDX/FAIL	HDDX Predictive Failure
/SYS/DBP/PRSNT	Disk Backplane Present
/SYS/FP/PRSNT	Front Panel Indicator Module Present
/SYS/FTX/FMY/FZ/SPEED	Front Fan Board X Fan Module Y Fan Z Speed in RPMs
/SYS/FTX/FMY/PRSNT	Front Fan Board X Fan Module Y Present
/SYS/INTSW	Intrusion Switch Tripped
/SYS/MB/T_AMBX	Motherboard Sensor X Ambient Temperature in Degrees Celsius
/SYS/MB/V_+12V	Motherboard 12V Main Input
/SYS/MB/V_+1V2	Motherboard 1.2V Core Input for Motherboard

**TABLE 2-1** Sensors (Continued)

<b>Name</b>	<b>Description</b>
/SYS/MB/V_+1V5	Motherboard 1.5V Core Input
/SYS/MB/V_+2V5	Motherboard 2.5V Core Input
/SYS/MB/V_+3V3	Motherboard 3.3V Main Input
/SYS/MB/V_+3V3AUX_R	Motherboard Standby Devices 3.3V Auxiliary Input
/SYS/MB/V_+5V	Motherboard 5V Main Input
/SYS/MB/V_-12V	Motherboard -12V Main Input
/SYS/MB/V_BAT	Motherboard Battery Voltage
/SYS/PSX/PRSNT	Power Supply X Present
/SYS/PSX/PWROK	Power Supply X Supplying Power
/SYS/PSX/VINOK	Power Supply X AC Input Available
/SYS/PX/CARDFAIL	CPU Module X Failure
/SYS/PX/PROCHOT	CPU Module X Overheating (split-plane modules only)
/SYS/PX/PRSNT	CPU Module X Present
/SYS/PX/T_AMB	CPU Module X Ambient Temperature in Degrees Celsius
/SYS/PX/T_CORE	CPU Module X Core Temperature in Degrees Celsius
/SYS/PX/V_+0V9VTT	CPU Module X 0.9V VTT Input
/SYS/PX/V_+12V	CPU Module X 12V Main Input
/SYS/PX/V_+1V2	CPU Module X 1.2V Core Input
/SYS/PX/V_+1V8	CPU Module X 1.8V Core Input
/SYS/PX/V_+2V5	CPU Module X 2.5V Core Input
/SYS/PX/V_+3V3AUX_R	CPU Module X 3.3V Auxiliary Input
/SYS/PX/V_CORE	CPU Module X Core Voltage
/SYS/PX/V_NB	CPU Module X 5V Main Input (split-plane modules only)

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# Indicators

**TABLE 2-2** Indicators

<b>Name</b>	<b>Description</b>
/SYS/DBP/HDDX/SERVICE	Service LED for HDD X is lit.
/SYS/FTX/FMY/SERVICE	Service LED for Front Fan Board X Fan Module Y is lit
/SYS/PX/CARD/SERVICE	Service LED for CPU Module X is lit
/SYS/PX/DY/SERVICE	Service LED for CPU Module X DIMM Y is lit
/SYS/PX/SERVICE	Service LED for CPU on CPU Module X is lit
/SYS/FAN_FAULT	Fan Fault LED on Front Panel is lit
/SYS/LOCATE	Locate LEDs are lit
/SYS/POWER	Power LED is lit
/SYS/PSU_FAULT	PSU Fault Detected
/SYS/SERVICE	Front Panel Service LED is lit
/SYS/TEMP_FAULT	Temperature Fault Detected

