

# Oracle ILOM Feature Updates and Release Notes Firmware Release 5.0.x



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# 1

## Using This Documentation

- **Overview** – This guide describes firmware enhancements, known issues, and workarounds for Oracle Integrated Lights Out Manager (ILOM) 5.0.x firmware.
- **Audience** – Technicians, system administrators, and authorized Oracle service providers.
- **Required knowledge** – Users should have experience managing system hardware.

## Product Documentation Library

Documentation and resources for this product and related products are available at [http://docs.oracle.com/cd/E95134\\_01/index.html](http://docs.oracle.com/cd/E95134_01/index.html) .

## Feedback

Provide feedback about this documentation at <http://www.oracle.com/goto/docfeedback> .

# 2

## Product Accessibility

This section describes the accessibility features that are part of Oracle Integrated Lights Out Manager (ILOM) and related documentation.

Oracle strives to make its products, services, and supporting documentation usable and accessible to the disabled community. To that end, products, services, and documentation include features that make the product accessible to users of assistive technology.

For more information about Oracle's commitment to accessibility, go to:

- <http://www.oracle.com/us/corporate/accessibility/index.html>

### Oracle ILOM Accessibility

You can use ILOM browser user interface (BUI) to monitor and manage the server hardware. The Oracle ILOM BUI does not require a special accessibility mode; rather, its accessibility features are always available. The BUI was developed using standard HTML and JavaScript and its features conform to accessibility guidelines.

To navigate a BUI page and select items or enter commands, you can use standard keyboard inputs, such as using the Tab key to go to a selection, or the up and down arrow keys to scroll through the page. You can also make menu selections by using standard keyboard combinations.

For example, using the Oracle ILOM Open Problems BUI page, you can identify faulted memory modules (DIMMs) or processors (CPUs) that would otherwise be identified by a lit LED indicator on the motherboard. Likewise, you can use the Oracle ILOM BUI to monitor the hardware power states that are also indicated by flashing LED indicators on the hardware.

The Oracle ILOM command-line interface (CLI) is an alternative and equivalent way to access the Oracle ILOM BUI features and functionality. Because the operating systems that run on the Oracle server hardware support assistive technologies to read the content of the screen, you can use the CLI as an equivalent means to access the color-based, mouse-based, and other visual-based utilities that are part of the BUI. For example, you can use a keyboard to enter CLI commands to identify faulted hardware components, check system status, and monitor system health.

You can use the Oracle ILOM Remote Console Plus to access both a text-based serial console and a graphics-based video console that enable you to remotely redirect host server system keyboard, video, mouse, and storage devices. Note however, that the Oracle ILOM Java Remote Console Plus keyboard, video, and mouse do not support scaling of the content on a BUI page by default. You need to use assistive technology to enlarge or reduce the content in the Java Remote Console Plus display.

As an alternative method to using the BIOS Setup Utility to configure BIOS settings, Oracle ILOM provides a set of configurable properties that can help you manage the BIOS configuration parameters on an Oracle x86 server. Using Oracle ILOM, you can:

- Back up a copy of the BIOS configuration parameters to an XML file using the Oracle ILOM BUI.

- Edit the XML file using a standard XML editor. The BIOS XML tags correlate directly to the BIOS screen labels.
- Restore the XML file of the backed up or edited configuration parameters to BIOS.

The BUI and CLI methods for using Oracle ILOM are described in the accessible HTML Oracle ILOM documentation at:

- <http://www.oracle.com/goto/ilom/docs>

## Documentation Accessibility

Documentation for Oracle hardware is provided in HTML and PDF formats. The HTML documents are accessible using standard operating system controls and assistive technology. PDF documents are also provided; however, PDF is not an accessible format. PDF documents are considered support documents because the PDF content is available in accessible HTML format.

Product documentation provides figures, other types of images, and screenshots that do not rely on color for interpretation. Within the figures, callouts indicate the referenced component information. The callouts are mapped within a table to provide text descriptions of the referenced parts of the figures. In addition, alternative text is provided for all tables and images that provides the context of the information and images.

Note that screen readers might not always correctly read the code examples in the documentation. The conventions for writing code require that closing braces should appear on an otherwise empty line. However, some screen readers might not always read a line of text that consists solely of a bracket or brace.

The documentation might contain links to web sites of other companies and organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these web sites.

You can access the accessible HTML documentation for Oracle x86 products at:

- <http://docs.oracle.com/en/servers/>

## Diversity and Inclusion

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# 3

## Oracle ILOM Firmware Versions and Download Methods

- [Oracle ILOM Firmware Version Numbering Scheme](#)
- [System Firmware Downloads Using MOS](#)
- [SPARC System Firmware Downloads Using Solaris IPS](#)

### Oracle ILOM Firmware Version Numbering Scheme

Oracle ILOM uses a firmware version numbering scheme that helps you to identify the firmware version you are running on your server. This numbering scheme includes a five-field string, for example, a.b.c.d.e, where:

- a – Represents the major version of Oracle ILOM.
- b – Represents a minor version of Oracle ILOM.
- c – Represents the update version of Oracle ILOM.
- d – Represents a micro version of Oracle ILOM. Micro versions are managed per platform or group of platforms. See your platform product notes for details.
- e – Represents a nano version of Oracle ILOM. Nano versions are incremental iterations of a micro version.

For example, Oracle ILOM 5.0.2.1 would designate:

- Oracle ILOM 5 as the major version
- Oracle ILOM 5.0 as a minor version
- Oracle ILOM 5.0.2 as the first update version
- Oracle ILOM 5.0.2.1 as a micro version of 5.0.2
- Oracle ILOM 5.0.2.1.a as a nano version of 5.0.2.1

#### Tip:

To identify the Oracle ILOM firmware version installed on your Oracle server, click System Information > Firmware in the web interface, or type `version` in the command-line interface.

### System Firmware Downloads Using MOS

Updates to the Oracle ILOM firmware are available through standalone software updates that you can download from the My Oracle Support (MOS) web site for each Oracle server. To download these software updates from the MOS web site, see the instructions that follow.



**Note:**

For instructions on how to perform the firmware update, see Updating Oracle ILOM Firmware.

## Download Product Software and Firmware

1. Go to <http://support.oracle.com>.
2. Sign in to My Oracle Support.
3. At the top of the page, click the Patches & Updates tab.
4. In the Patch Search panel, click Product or Family (Advanced).
5. In the Product Is list box, type a full or partial product name until a list of product matches appears in the list box, and then select the product name of interest.

In the Product Is list box, type a full or partial product name until a list of product matches appears in the list box, and then select the product name of interest.

**Example Product Names:** Oracle Server X7-2 or SPARC M6-32.

6. In the Release Is list box:
  - a. Click the Down arrow in the Release Is list box to display a list of matching product folders.  
  
Click the Down arrow in the Release Is list box to display a list of matching product folders.  
  
A list of one or more product software releases appears.
  - b. Select the check box next to the software release of interest.  
  
Select the check box next to the software release of interest.

**For example:** X7-2 SW 1.0.1 or SPARC M6-32 Sun Systems Firmware 9.2

7. Click Search.  
  
Click Search.  
  
A Patch Search Results screen appears displaying a list of patch names and descriptions.
8. In the Patch Search Results screen, select the Patch Name of interest.
9. In the Patch Name selection, click one of the following actions:
  - **Readme** – Opens the selected patch Readme file.
  - **Add to Plan** – Adds the selected patch to a new or existing plan.
  - **Download** – Downloads the selected patch.

### Related Information

- [Firmware Downloads and Release History for Oracle Systems \(http://www.oracle.com/technetwork/systems/patches/firmware/release-history-jsp-138416.html\)](http://www.oracle.com/technetwork/systems/patches/firmware/release-history-jsp-138416.html)
- [Firmware Resources \(http://www.oracle.com/technetwork/systems/patches/firmware/firmware-resources-1429462.html\)](http://www.oracle.com/technetwork/systems/patches/firmware/firmware-resources-1429462.html)

## SPARC System Firmware Downloads Using Solaris IPS

The latest versions of platform firmware for selected SPARC servers are now available in the Solaris 11.3 Image Packaging System (IPS) Support Repository. System administrators can use the `pkg install` command to access the latest server platform firmware versions. The IPS firmware server packages deliver the exact same files that are currently available for download from My Oracle Support ( <http://support.oracle.com> ). The installation of the firmware packages will only place the firmware files into the Solaris file system hierarchy. The administrator of the system must manually run the firmware update process, and then power-cycle the server to complete the firmware update process.

For more information about how to download SPARC platform firmware using the Oracle Solaris IPS method, see the following sections:

- [Before You Begin](#)
- [Download SPARC Firmware From the Solaris IPS Support Repository](#)

### Before You Begin

- Oracle Solaris 11.3 or later must be installed on the SPARC server.
- Users must have an Oracle Solaris support contract to access the Support Package Repository.
- For more information about Solaris IPS, refer to the Solaris 11.3 or later IPS documentation ( <http://www.oracle.com/technetwork/server-storage/solaris11/technologies/lifecycle-management-2237945.html> ).

### Download SPARC Firmware From the Solaris IPS Support Repository

1. Access the Oracle Solaris Support Package Repository.
2. Use the `pkg list` command to identify firmware update packages for server.  
Use the `pkg list` command to identify firmware update packages for server.

**Command Example: `pkg list -af firmware/system/ServerType`**

Package names include the name of the server.

3. Use the `pkg install` command to download the firmware package files.  
Use the `pkg install` command to download the firmware package files.

**Command Example: `pkg install firmware/system/T5-4`**

The `pkg install` command places the files in the Solaris file system under `/var/firmware/ServerType` .

*Tips:*

- For subsequent downloads to the same package name, use the `pkg update` command.
  - To query the package manifest, use the `pkg contents` command.
4. Refer to the README file for instructions on how to apply the firmware update.  
Refer to the README file for instructions on how to apply the firmware update.

**Path Example:**

`/var/firmware/system/T5-4/sysfw9-0/p21342653_942e/README.html`

 **Note:**

For further firmware update instructions, see the procedure for Updating Oracle ILOM Firmware within the *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 5.0.x*.

Related Information

- [Firmware Downloads and Release History for Oracle Systems \(http://www.oracle.com/technetwork/systems/patches/firmware/release-history-jsp-138416.html\)](http://www.oracle.com/technetwork/systems/patches/firmware/release-history-jsp-138416.html)
- [Firmware Resources \(http://www.oracle.com/technetwork/systems/patches/firmware/firmware-resources-1429462.html\)](http://www.oracle.com/technetwork/systems/patches/firmware/firmware-resources-1429462.html)

# 4

## Updates to Oracle ILOM 5.0.0 Firmware

This section includes the following information about the Oracle ILOM firmware release 5.0.0.

- [Feature Enhancements and Other Changes As of Firmware Version 5.0.0](#)
- [Important Operating Notices as of Firmware Release 5.0.0](#)


### Feature Enhancements and Other Changes As of Firmware Version 5.0.0

The following table lists feature enhancements as well as other changes as of Oracle ILOM firmware version 5.0.0.

**Table 4-1 Feature Enhancement and Change Summary as of Oracle ILOM firmware version 5.0.0**

Feature Update	Enhancement Description	For More Details, See:
New Web Service REST API functionality.	Support for additional REST API management functions. These new functions include: <ul style="list-style-type: none"><li>• Fault management of field replacement units (FRUs).</li><li>• Management of multiple firmware images.</li><li>• Upload and download of local client REST API data.</li><li>• Host console history extraction to a binary (non-text) file.</li><li>• Download of SP Snapshot data.</li></ul>	<b>Documentation Update:</b> As of firmware version 5.0, the former <i>Oracle ILOM Web Service REST API User Guide for Firmware Release 4.0.x</i> was replaced by the <i>Oracle ILOM Web Service REST API User Guide for Firmware Releases 4.x and 5.x</i> .

**Table 4-1 (Cont.) Feature Enhancement and Change Summary as of Oracle ILOM firmware version 5.0.0**

Feature Update	Enhancement Description	For More Details, See:
<p>New or updated security related features.</p>	<p>New security related features include:</p> <ul style="list-style-type: none"> <li>• Server Certificate for outgoing HTTPS connections.</li> <li>• Web Server Session Duration and Allowed Services configuration properties.</li> <li>• Additional password policy locking properties for local user accounts.</li> </ul> <p>End of life support for the following features:</p> <ul style="list-style-type: none"> <li>• TLS v1.1 (support removed).</li> <li>• DSA Server Side Keys (support removed).</li> <li>• IPMI 1.5 Sessions (support removed)</li> <li>• HTTP (support removed and replaced by HTTPS).</li> </ul> <p>Revised default setting(s):</p> <ul style="list-style-type: none"> <li>• IPMI 2.0 Session default property changed from enabled to disable.</li> </ul>	<ul style="list-style-type: none"> <li>• Security Features Per Oracle ILOM Firmware Release.</li> </ul> <div style="border: 1px solid #add8e6; padding: 10px; margin: 10px 0;"> <p> <b>Note:</b></p> <p>Documentation Update. A new version of the <i>Oracle ILOM Security Guide</i> is available as of firmware release 5.0. This new guide represents all security related information for systems running Oracle ILOM firmware release 5.0.x. This guide does not cover security functionality for earlier firmware releases (4.x and 3.x).</p> </div> <ul style="list-style-type: none"> <li>• Modifying Default Management Access Configuration Properties See Table: <i>Web Server Configuration Properties</i></li> <li>• Modifying Default Management Access Configuration Properties See Table: <i>Server Certificate Configuration Properties for Outgoing HTTPS Connections</i></li> <li>• Modify Password Policy Restrictions and Account Locking Properties for Local Users</li> </ul>
<p>New firmware backup image functionality.</p>	<p>Ability to store and manage multiple Oracle ILOM firmware images.</p>	<p>Storing and Managing SP Firmware Images - As of Firmware Version 5.0</p>
<p>New firmware downgrade package restrictions</p>	<p>Ability to identify vulnerabilities in firmware images presented for downgrade.</p>	<p>Firmware Downgrade Package Restrictions</p>
<p>Updated web browser support.</p>	<p>Latest list of web browsers supported by Oracle ILOM.</p>	<p>Supported Web Browsers for Oracle ILOM</p>
<p>Oracle ILOM HTTP and HTTPS CLI targets replaced.</p>	<p>The Oracle ILOM Web Server CLI namespaces for HTTP and HTTPS (<i>sp/services/http</i> and <i>sp/services/https</i>) were replaced by the single namespace <i>web</i> (<i>sp/services/web</i>).</p>	<p>Modifying Default Management Access Configuration Properties  <i>Table: Web Server Configuration Properties</i></p>

**Table 4-1 (Cont.) Feature Enhancement and Change Summary as of Oracle ILOM firmware version 5.0.0**

Feature Update	Enhancement Description	For More Details, See:
Platform support change for SPARC host state capture mode.	Some SPARC platforms do not support the use of the host state capture mode property.	Setting SPARC Host State Capture
SNMP v2c support removed.	Configuration properties for SNMP v2c have been removed.	SNMP Overview

## Important Operating Notices as of Firmware Release 5.0.0

- [Deprecation Notice for IPMI 2.0 Management Service](#)
- [Removal of SNMP v2c Configuration Properties](#)
- [Updated Web Browser Support](#)
- [Removal of TLS v1.1 Configuration Property](#)

### Deprecation Notice for IPMI 2.0 Management Service

**Present Behavior:** IPMI 2.0 Management Sessions - Enabled (default setting)

**Future Behavior:** The following IPMI Management Service changes will occur after Oracle ILOM firmware 4.0.2:

- **First IPMI Service Support Change** — The default configuration property for IPMI 2.0 Sessions changed from Enabled to Disabled as of Oracle ILOM 5.0.0. Clients relying on Oracle ILOM IPMI 2.0 session support by default will no longer be able to communicate with Oracle ILOM. To enable IPMI communication with Oracle ILOM, perform one of the following:
  - Use the Oracle IPMI TLS service and interface. For more information, see *IPMI TLS Service and Interface* in *Oracle ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x*
  - or -
  - Manually enable the configuration property for IPMI 2.0 Session. For details, see *IPMI Service Configuration Properties* in *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x*.
- **Second IPMI Service Support Change** — Removal of IPMI 2.0 client support. IPMI 2.0 clients will no longer be able to communicate with Oracle ILOM. Clients relying on IPMI communication will need to use the IPMI TLS service and interface. For more information, see *IPMI TLS Service and Interface* in *Oracle ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x*

For future updates about IPMI Management Service support in Oracle ILOM, refer to the latest firmware release information published in this guide.

### Removal of SNMP v2c Configuration Properties

As of Oracle ILOM firmware version 5.0.0, the following SNMP management access properties are no longer supported and were removed from all Oracle ILOM user interfaces.

- V2c
- Communities

Note that Oracle ILOM will continue to support configuration properties for SNMP v3 management access, as well as configuration properties for SNMP v2c and v3 trap alert notifications.

## Removal of TLS v1.1 Configuration Property

As of Oracle ILOM firmware version 5.0.0, the configuration property for TLSv1.1 is no longer supported and was removed from all Oracle ILOM user interfaces. The configuration property for TLSv1.2 is enabled by default.

## Updated Web Browser Support

Microsoft Internet Explorer (IE) support is replaced by Microsoft Edge.

Microsoft has deprecated IE 11 in Windows 10 and recommends using Edge as the default browser.

For additional information, see the following:

- *Supported Web Browsers for Oracle ILOM* in *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 5.0.x*
- [Oracle Software Web Browser Support Policy](#)



# 5

## Updates to Oracle ILOM 5.0.1 Firmware

This section includes the following information about the Oracle ILOM firmware release 5.0.1.

- [Feature Enhancements and Other Changes As of Firmware Version 5.0.1](#)

### Feature Enhancements and Other Changes As of Firmware Version 5.0.1

The following table lists feature enhancements as well as other changes as of Oracle ILOM firmware version 5.0.1.

**Table 5-1 Feature Enhancement and Change Summary as of Oracle ILOM firmware version 5.0.1**

Feature Update	Enhancement Description	For More Details, See:
Default CLI Session Timeout property value increased.	The default CLI Session Timeout property changed from 15 minutes to 720 minutes (12 hours).	Default Timeout for CLI and Web Sessions
New Auto Baud Rate property for Serial Host Management.	The Auto Baud Rate property, when enabled, provides the ability to detect and use the host baud rate value set on the host console. This property is disabled by default.	Modifying Default Settings for Network Deployment and Administration See Table: <i>Serial Port Configuration Properties</i>
New External Power Button Override property (x86 Oracle Servers only).	The new External Power Button Override property enables administrators to help prevent accidental shut downs by disabling the use of the external Power button on supported x86 servers. This property is disabled by default on all supported Enterprise x86 servers.	Setting the External Power Button Override Policy on x86 Servers

# 6

## Updates to Oracle ILOM 5.0.2 Firmware

This section includes the following information about the Oracle ILOM firmware release 5.0.2.

- [Critical Patch Update](#)
- [Resolved Known Issues As of Firmware Version 5.0.2](#)

### Critical Patch Update

The Oracle ILOM 5.0.2 firmware release is a critical patch update for Oracle servers supporting Oracle ILOM 5.0.2 firmware.

 **Note:**

A Critical Patch Update is a collection of patches for multiple security vulnerabilities. These patches address vulnerabilities in Oracle code and in third-party components included in Oracle products. These patches are usually cumulative, but each advisory describes only the security patches added since the previous Critical Patch Update Advisory. Refer to [Critical Updates, Security Alerts and Bulletins](#) for information about Oracle Security advisories.

 **Note:**

Information about the latest firmware and Software Release, including tools, drivers, component firmware versions, and bug fixes is available in the ReadMe file for each Oracle server software release. For a list of Oracle system software releases, see [Firmware Downloads and Release History for Oracle Systems \(https://www.oracle.com/servers/technologies/firmware/release-history-jsp.html\)](https://www.oracle.com/servers/technologies/firmware/release-history-jsp.html).

### Resolved Known Issues As of Firmware Version 5.0.2

This section describes resolved known issues and workarounds as of Oracle ILOM 5.0.2. Specific Bug or Enhancement Request (ER) numbers and workarounds or updates for the issues are provided, where available.

Resolved Issue Description	Link
Service and Escalation Properties Appear in SP Configuration Backup File	<a href="#">Service and Escalation Properties Appear in SP Configuration Backup File (Resolved)</a>

## Service and Escalation Properties Appear in SP Configuration Backup File (Resolved)

**Resolved in Oracle ILOM Firmware Release:** 5.0.2

**Issue:** Operation state properties related to Service and Escalation mode appear in the SP Configuration Backup file.

**Resolution:** The operation state properties related to Service and Escalation mode were removed from the SP Configuration Backup file.

**Bug Number:** 32982237

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