

HP iLO 4 Release Notes

2.00

HP Part Number: 684917-402
Published: September 2014
Edition: 1



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Revision History

Manufacturing part number	Supported versions	Edition number	Publication date
684917-006	1.22	1	April 2013
684917-007	1.30	1	September 2013
684917-009	1.40	1	February 2014
684917-401	1.50	1	May 2014
684917-402	2.00	1	September 2014

Description

The HP iLO subsystem is a standard component of HP ProLiant servers that simplifies initial server setup, server health monitoring, power and thermal optimization, and remote server administration. The HP iLO subsystem includes an intelligent microprocessor, secure memory, and a dedicated network interface. This design makes HP iLO independent of the host server and its operating system.

HP iLO enables and manages the Active Health System and also features Agentless Management. HP iLO monitors all key internal subsystems. When enabled, SNMP alerts are sent directly by HP iLO, regardless of the host operating system or whether a host operating system is installed. Embedded remote support software is available on HP ProLiant Gen8 and Gen9 servers with iLO 4, regardless of the operating system software and without installing OS agents on the server.

Update recommendation

Recommended. Update to this firmware version if your system is affected by one of the documented fixes or to take advantage of the enhanced functionality provided by this version.

Replaces version

HP iLO 4 1.51

Product models

HP iLO 4

Operating systems

- Microsoft Windows Server 2008, R2
- Microsoft Windows 2012, R2
- Red Hat Enterprise Linux 6 (x86, AMD64/EM64T)
- Red Hat Enterprise Linux 7 (x86, AMD64/EM64T)
- SUSE Linux Enterprise Server 11 (x86, AMD64/EM64T)
- SUSE Linux Enterprise Server 12 (x86, AMD64/EM64T)
- VMware ESX 4.0, 4.1
- VMware ESXi Server 5.0
- VMware vSphere 5.1, 5.5

Browser requirements

The following browsers are supported for running the iLO web interface:

- Internet Explorer 8, 11
- Firefox ESR 24
- Chrome (latest version)

The following settings must be enabled when using the iLO 4 web interface:

- **JavaScript**—Client-side JavaScript is used extensively by this application.
- **Cookies**—Cookies must be enabled for certain features to function correctly.
- **Pop-up Windows**—Pop-up windows must be enabled for certain features to function correctly. Verify that pop-up blockers are disabled.

Devices supported

Gen9 servers

- HP ProLiant BL460c Gen9 Server
- HP ProLiant DL380 Gen9 Server
- HP ProLiant DL360 Gen9 Server
- HP ProLiant DL180 Gen9 Server
- HP ProLiant DL160 Gen9 Server
- HP ProLiant ML350 Gen9 Server
- HP ProLiant XL230a Gen9 Server

Gen8 servers

- HP ProLiant BL660c Gen8 Server
- HP ProLiant BL465c Gen8 Server
- HP ProLiant BL460c Gen8 Server
- HP ProLiant BL420c Gen8 Server
- HP ProLiant DL585 Gen8 Server
- HP ProLiant DL580 Gen8 Server
- HP ProLiant DL560 Gen8 Server
- HP ProLiant DL385p Gen8 Server
- HP ProLiant DL380p Gen8 Server
- HP ProLiant DL380e Gen8 Server
- HP ProLiant DL360p Gen8 Server
- HP ProLiant DL360p Gen8 SE Server
- HP ProLiant DL360e Gen8 Server
- HP ProLiant DL320e Gen8 v2 Server
- HP ProLiant DL320e Gen8 Server
- HP ProLiant DL160 Gen8 Server
- HP ProLiant ML350e Gen8 Server
- HP ProLiant ML350p Gen8 Server
- HP ProLiant ML310e Gen8 v2 Server
- HP ProLiant ML310e Gen8 Server
- HP ProLiant SL4540 Gen8 Server
- HP ProLiant SL210t Gen8 Server
- HP ProLiant SL270s Gen8 Server
- HP ProLiant SL270s Gen8 SE Server
- HP ProLiant SL250s Gen8 Server
- HP ProLiant SL230s Gen8 Server
- HP ProLiant MicroServer Gen8
- HP ProLiant WS460c Gen8 Graphics Server Blade

Enhancements

This version adds support for the following features and enhancements:

HP ProLiant Gen9 servers only

- **Manual iLO reboot via the server UID button**—Allows you to use the server UID button to initiate a graceful iLO reboot or a hardware iLO reboot.
- **HP ProLiant Pre-boot Health Summary**—Displays diagnostic information on the server monitor when the server is off and power is available.
- **1 GB Embedded User Partition**—Allows you to use a 1 GB non-volatile flash memory partition as if it was an SD-card attached to the server.
- **HP Smart Storage Battery information**—Details about the HP Smart Storage Battery are displayed on the **System Information**→**Power Information** page.

HP ProLiant Gen8 and Gen9 servers

- **iLO Federation Group License Activation**—Supports license key installation on multiple systems.
- **Group configuration for iLO Federation Groups**—Allows you to configure groups for the systems in an iLO Federation Management group. Configuring group memberships of individual systems is still supported.
- **HP RESTful API**—The HP RESTful API is a management interface that server management tools can use to perform configuration, inventory, and monitoring of an HP ProLiant server via iLO.
- **MOD_NETWORK_SETTINGS**—The command has been updated to include the NIC auto-selection feature, DHCPV6_DOMAIN_NAME, SNP_PORT, and reduce the potential number of reboots needed when changing settings.

Feature previews

- **Shared Network Port port selection**—Allows you to choose between port 1 and port 2 for Shared Network Port functionality. You can configure this setting on the **Network**→**Shared Network Port**→**General** page in the iLO web interface.

NOTE: Not all sideband NICs are supported. In some cases, port 2 might not be fully functional.

- **iLO NIC auto-selection**—Allows you to configure iLO to automatically select the iLO Dedicated Network Port or Shared Network Port, based on the detected network activity at iLO startup. You can configure this feature by using the iLO CLI or XML scripting.

Fixes

The following issues are resolved in this version:

- The error `Max number of certificates has been reached` occurs when SSO certificates are imported.
- The iLO Shared Network Port cannot be enabled for embedded LOM via the ROM-based setup utility or the iLO web interface.
- iLO cannot be enabled via the iLO RBSU if it was disabled by using the iLO 4 Configuration Utility in the UEFI System Utilities.
- DHCP options can be modified via the ROM-based setup utility when DHCP is disabled.
- The **System Information**→**Health Summary** page shows an `Undefined` error message on DL380p Gen8 servers.
- iLO requires a reset for **IPv6 Multicast Scope** changes.

- The iLO clock is one hour fast during Daylight Savings Time when it is configured by the ROM-based setup utility or the Insight Management Agents.
- The power supply status for an installed power supply is incorrectly displayed as **Not installed** on the **System Information**→**Power Information** page in the iLO web interface.
- An error message is not displayed when an invalid Gateway IPv4 address is configured.
- Users without the Configure iLO Settings privilege can modify iLO ROM-based setup utility settings.
- The character limit for the **Server Name** is inconsistent between the iLO web interface and the CLI.
- The power supply status shows **Failed/Good, In Use** when the power cord is removed from the server.
- Embedded Remote Support fails after sending a second test service event.
- The iLO Firmware cannot be updated via the Group Firmware Update feature.
- The 24-hour power graph does not include all available power data.
- Characters are missing on the **Group Virtual Media** page after a disk image is connected through a URL.
- The Login Security Banner display on the **Login** page is incomplete.
- The CLI hangs after Virtual Media is mounted through a URL.
- SSRT bulletin 101639 has been addressed.
- A VRD power fault is incorrectly reported in the IML when a power brown-out occurs.
- NAND partition mount failures are not reported correctly. This causes a problem for utilities that try to access the Active Health System partition, and it sometimes prevents the display of the **F10** prompt at POST.

Prerequisites

- For best performance and IPv6 support, HP recommends upgrading to the latest versions of the iLO utilities:

Utility	Version	Notes
HPQLOCFG	1.20	This replaced the CPQLOCFG utility.
HP Lights-Out XML Scripting Sample	4.40	
HPONCFG	4.4.0.0	
LOCFG.PL	4.40	Available in the HP Lights-Out XML Scripting Sample bundle.
HPLMIG	4.40	Upgrade HPLMIG before installing this version of iLO 4.

- Some iLO 4 features are part of an iLO licensing package. For more information about iLO Licensing, see the following website: <http://www.hp.com/go/ilo/licensing>.
- You must install Java Runtime Environment Standard Edition 1.4.2_13 or later to use the Java Integrated Remote Console.

- The .NET IRC requires one of the following versions of the Microsoft .NET Framework. You can use Windows Update to install the .NET Framework.
 - .NET Framework 3.5 Full (SP1 Recommended)
 - .NET Framework 4.0 Full
 - .NET Framework 4.5

NOTE: The .NET Framework versions 3.5 and 4.0 have two deployment options: Full and Client Profile. The Client Profile is a subset of the Full framework. The .NET IRC is supported with the Full framework only. The Client Profile is not supported. Version 4.5 of the .NET Framework does not have the Client Profile option.

- The .NET Integrated Remote Console is launched using Microsoft ClickOnce, which is part of the .NET Framework.
 - Mozilla Firefox requires an add-on to launch .NET applications. You can launch the .NET IRC from a supported version of Firefox by using a ClickOnce add-on such as the Microsoft .NET Framework Assistant. You can download the .NET Framework Assistant from <http://addons.mozilla.org/>.
 - Google Chrome requires an extension to launch .NET applications. As a workaround, use one of the following:
 - The .NET IRC with a different browser.
 - The standalone .NET IRC.
 - The Java IRC.
 - The iLO mobile app.

Issues

You might encounter a `data inconsistency error` when you use the iLO Federation features. This error occurs when an iLO on your network does not respond correctly. Use the data on the **Multi-System Map** page to troubleshoot data inconsistency errors.

Installation instructions

See the following document for installation instructions:

HP iLO 4 User Guide

Part number: 684918-008

Edition: 1

Support

- HP iLO 4 firmware updates and utilities can be found here:
<http://www.hp.com/support/iLO4>
- HP iLO 4 2.00 supports the following IPv6 dedicated network communications:
 - IPv6 Static Address Assignment
 - IPv6 SLAAC Address Assignment
 - IPv6 Static Route Assignment
 - IPv6 Static Default Gateway Entry

- DHCPv6 Stateful Address Assignment
- DHCPv6 Stateless DNS, Domain Name, and NTP Configuration
- Integrated Remote Console
- Onboard Administrator Single Sign-On
- HP-SIM Single Sign-On
- Web Server
- SSH Server
- SNTP Client
- DDNS Client
- RIBCL over IPv6
- SNMP
- AlertMail
- Remote Syslog
- WinDBG Support
- HPQLOCFG/HPLOMIG over an IPv6 connection
- Scriptable Virtual Media
- CLI/RIBCL key import over an IPv6 connection
- Authentication using LDAP and Kerberos over IPv6
- iLO Federation
- HP iLO 4 2.00 does not support the following IPv6 networking features:
 - Shared Network Port Connections
 - IPMI
 - NETBIOS-WINS
 - ESKM Support for Storage
 - Embedded Remote Support

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