

HPE Gen10 Plus & Gen10 服务器

iLO5 中升级 IE/SPS 固件

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一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen10 Plus & Gen10 系列服务器通过 iLO5 界面升级 IE/SPS 固件方法。
- 实际情况是否适用本文档，请通过下面导航链接进行确认：
<https://zhiliao.h3c.com/Theme/details/218273>
- 提示：
 - 本文档中的信息（包括产品，软件版本和设置参数）仅作参考示例，具体操作与目标需求设置请以实际为准。
 - 固件更新有风险，请注意提前备份数据。
 - 本文档不定期更新维护，请以发布的最新版本为准。

二. 升级准备

1. 固件获取

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/216386>

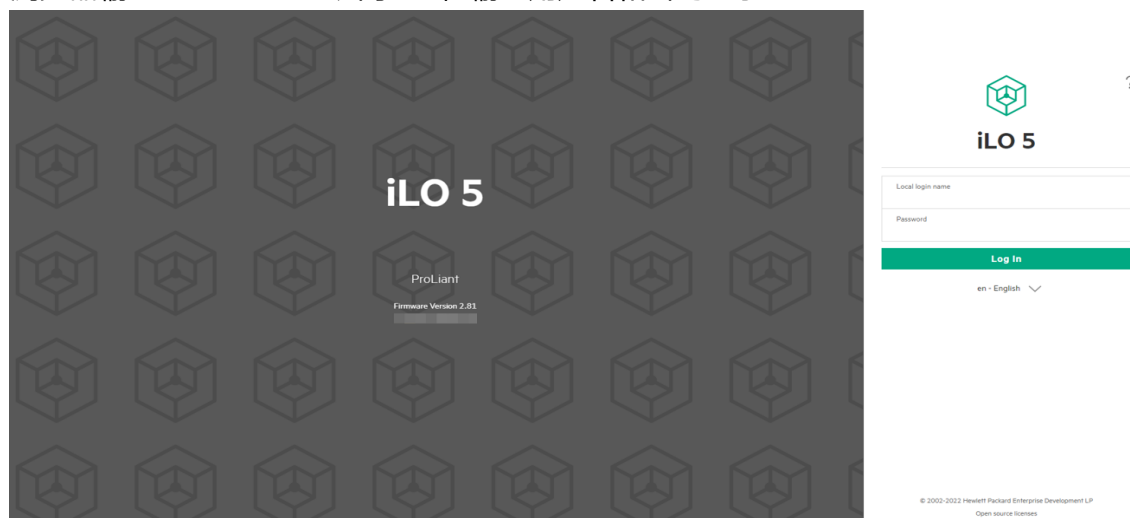
2. 连接 iLO5

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/216337>

三. 升级步骤

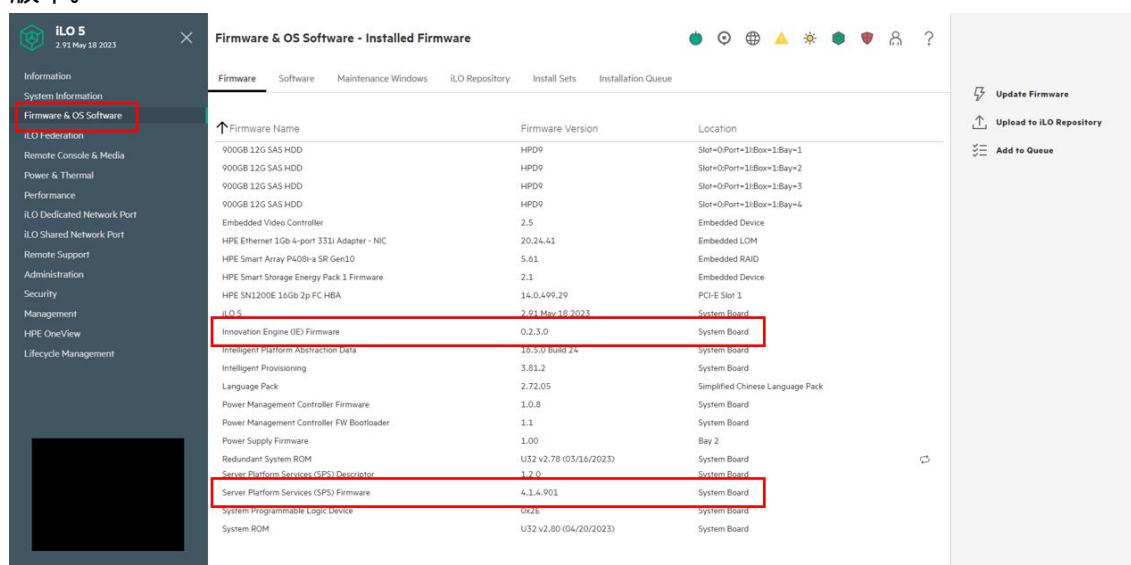
1. 访问 iLO5

浏览器输入 iLO5 IP 地址访问 iLO，输入用户名和密码登录。



2. 通过 iLO5 检查固件更新前的版本

通过 iLO5 页面 **Firmware & OS Software - Installed Firmware** 查看 Innovation Engine (IE) Firmware 版本即为 IE 固件版本，Server Platform Services (SPS) Firmware 版本即为 SPS 固件版本。



注：其他固件信息也可在此页面查询。

3. 使用 exe 文件进行固件更新

3.1 更新 IE 固件

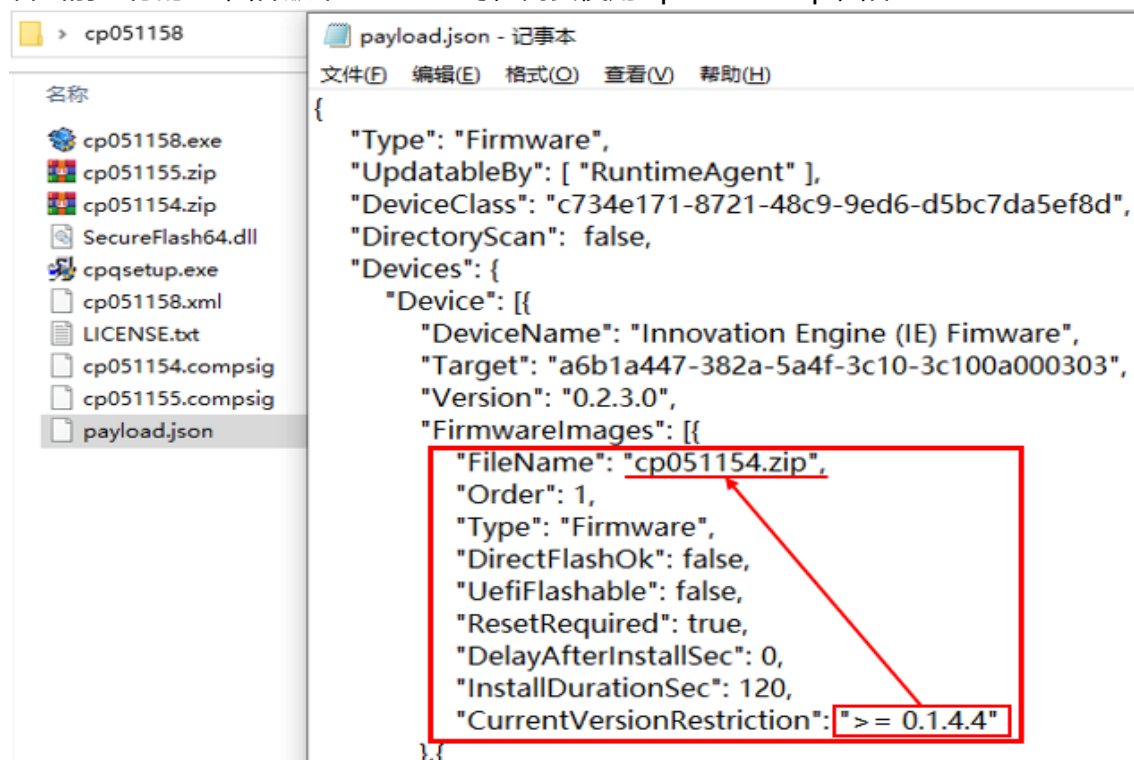
3.1.1 下载与解压固件

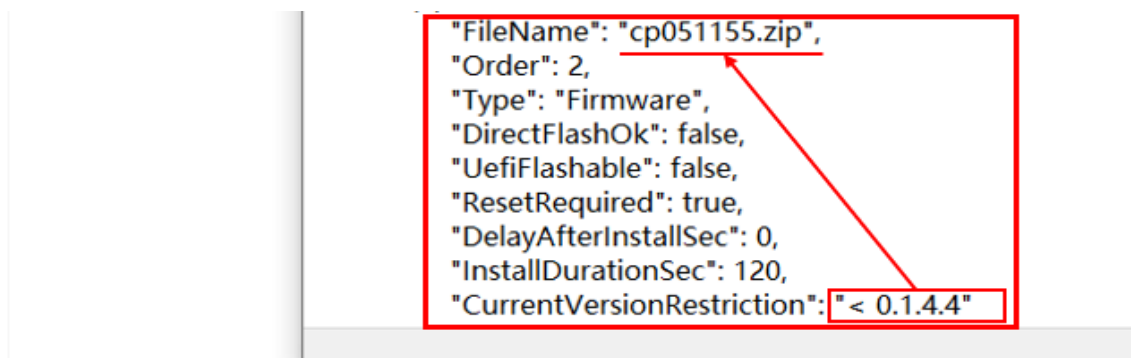
- 1) 通过 [HPE 官网](#) 搜索对应服务器的 IE 固件，可选择任意 Windows 系统，下载 exe 固件文件。



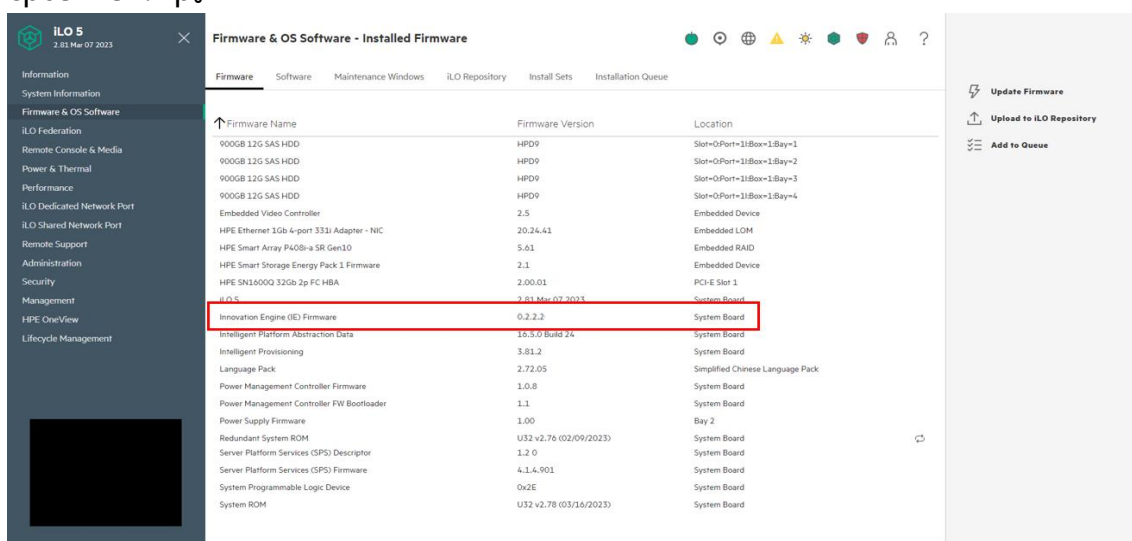
- 2) 将 exe 文件解压缩，获取并浏览 payload.json 文件，通过此文件查看当前运行的 IE 需要使用哪个版本更新及其固件名称。

以下图为例，若当前运行的 IE 固件版本 $\geq 0.1.4.4$ 时，需要使用 cp051154.zip 固件包；
若当前运行的 IE 固件版本 $< 0.1.4.4$ 时，需要使用 cp051155.zip 固件包。

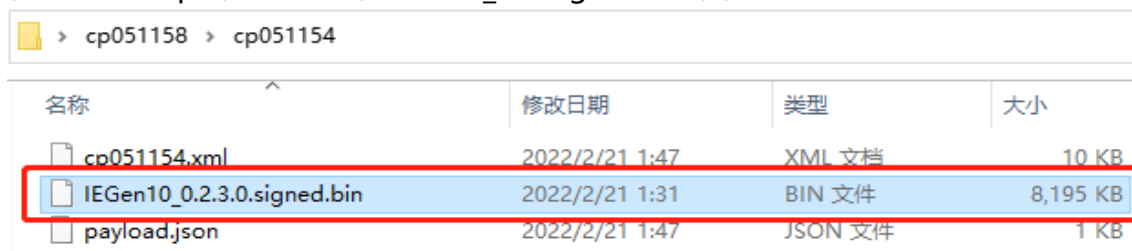




- 3) 根据本例服务器查询现运行 IE 固件版本为 0.2.2.0，大于 0.1.4.4，故需使用 cp051154.zip。

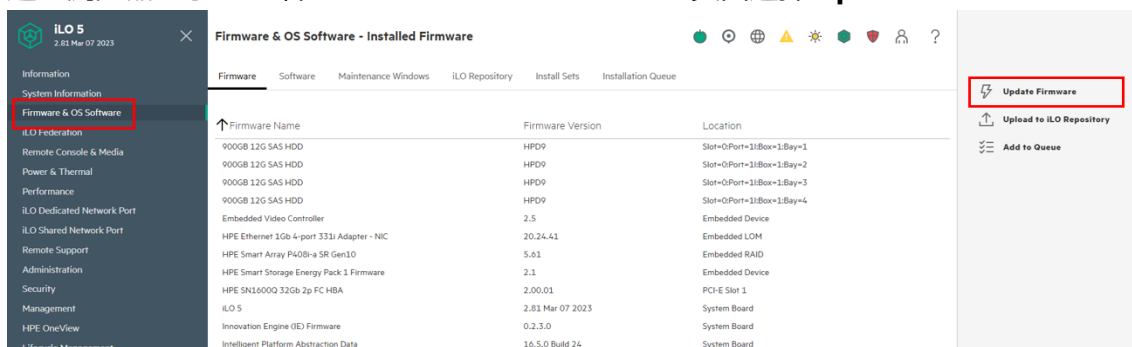


- 4) 将对应 xxx.zip 解压缩，获取 IEGenx_xxx.signed.bin 固件文件。

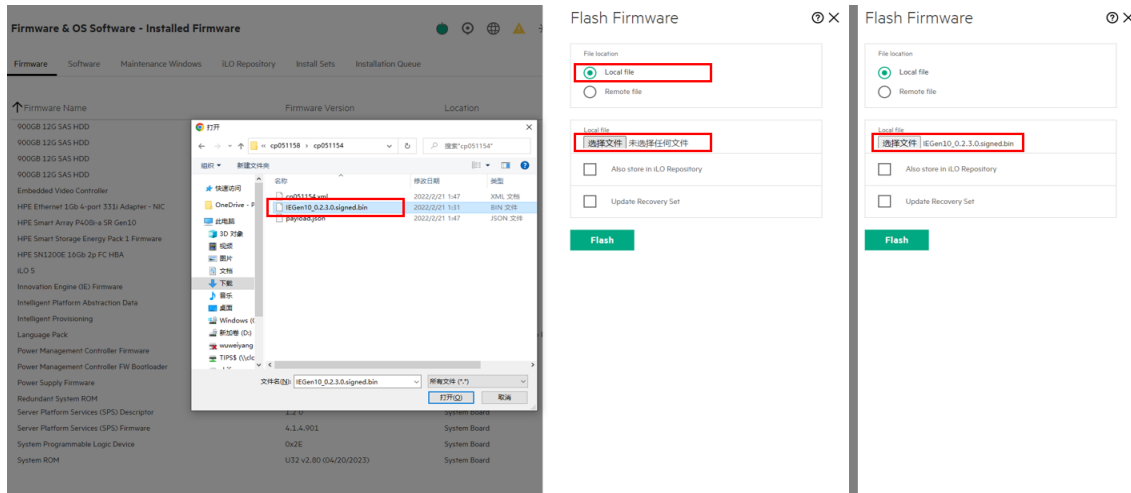


3.1.2 将固件挂载到 iLO 并开始更新

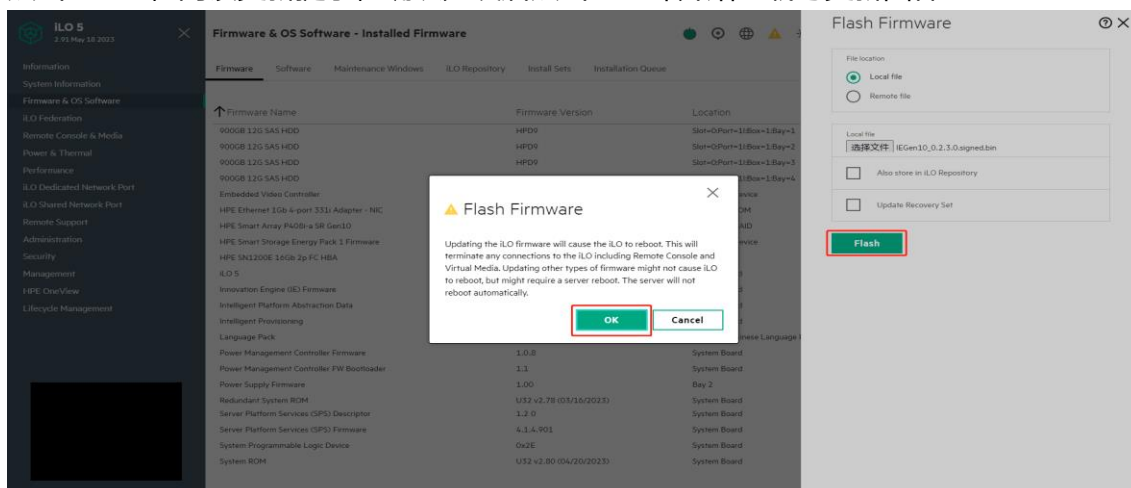
- 1) 通过浏览器登录 iLO5, 在 **Firmware & OS Software** 页面选择 **Update Firmware**。



2) 选择 **Local file**，将已保存至本地的固件文件挂载到 **Local file 选择文件处**。

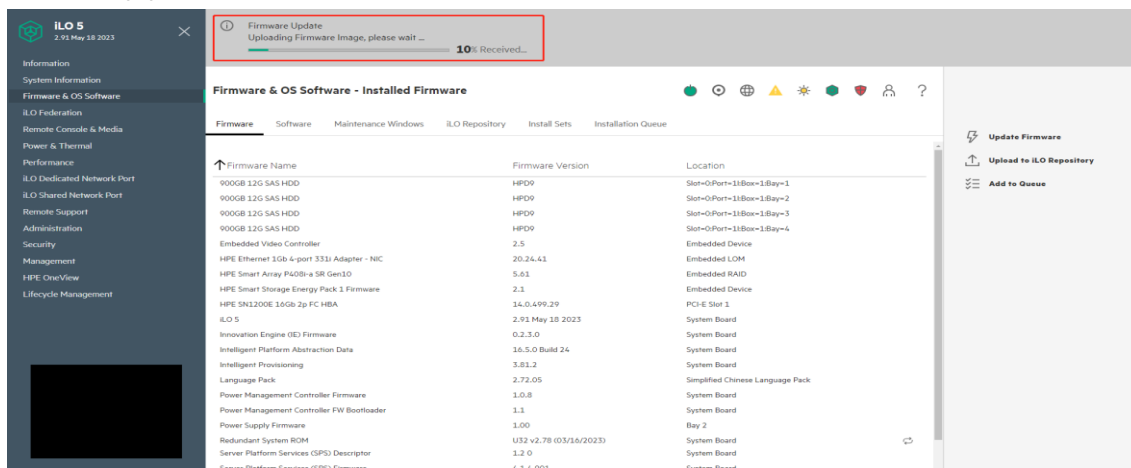


3) 点击 **Flash**，阅读更新提示，确认无误后点击 **OK** 即开始上载与更新固件。



注：上图提示内容为“如果更新 iLO 固件，将导致 iLO 重新引导。这会终止 iLO 的任何连接，包括远程控制台和虚拟介质。更新其它类型的固件可能不会导致 iLO 重新引导，但可能需要重新引导服务器，服务器不会自动重新引导”。

4) 正在上载固件。



注：更新 IE 固件需保持服务器为关机状态或处于自检阶段，否则更新将无法执行。

Firmware Update
This update/upload requires the system to be powered off or in POST.

5) 正在更新固件。

The screenshot shows the iLO 5 interface with a red box highlighting the 'Firmware Update' status bar at the top, which indicates 'Flashing Firmware Image, please wait ... 10% Flashing Image ...'. The main content area displays a table of installed firmware components.

Firmware Name	Firmware Version	Location
Embedded Video Controller	2.5	Embedded Device
HPE Ethernet 1Gb 4-port 331i Adapter - NIC	20.24.41	Embedded LOM
HPE Smart Array P408i-a SR Gen10	5.61	Embedded RAID
HPE Smart Storage Energy Pack 1 Firmware	2.1	Embedded Device
HPE SN1200E 16Gb 2p FC HBA	14.0.499.29	PCI-E Slot 1
iLO 5	2.91 May 18 2023	System Board
Innovation Engine (IE) Firmware	0.2.3.0	System Board
Intelligent Platform Abstraction Data	16.5.0 Build 24	System Board
Intelligent Provisioning	3.81.2	System Board
Language Pack	2.72.05	Simplified Chinese Language Pack
Power Management Controller Firmware	1.0.8	System Board
Power Management Controller FW Bootloader	1.1	System Board
Power Supply Firmware	1.00	Bay 2
Redundant System ROM	U32 v2.78 (03/16/2023)	System Board
Server Platform Services (SPS) Descriptor	1.2.0	System Board
Server Platform Services (SPS) Firmware	4.1.4.901	System Board
System Programmable Logic Device	0x2E	System Board
System ROM	U32 v2.80 (04/20/2023)	System Board

6) 更新完成后，将弹出“Firmware Update Completed”提示。服务器不会自动重启，新固件将在下一次重启后生效。

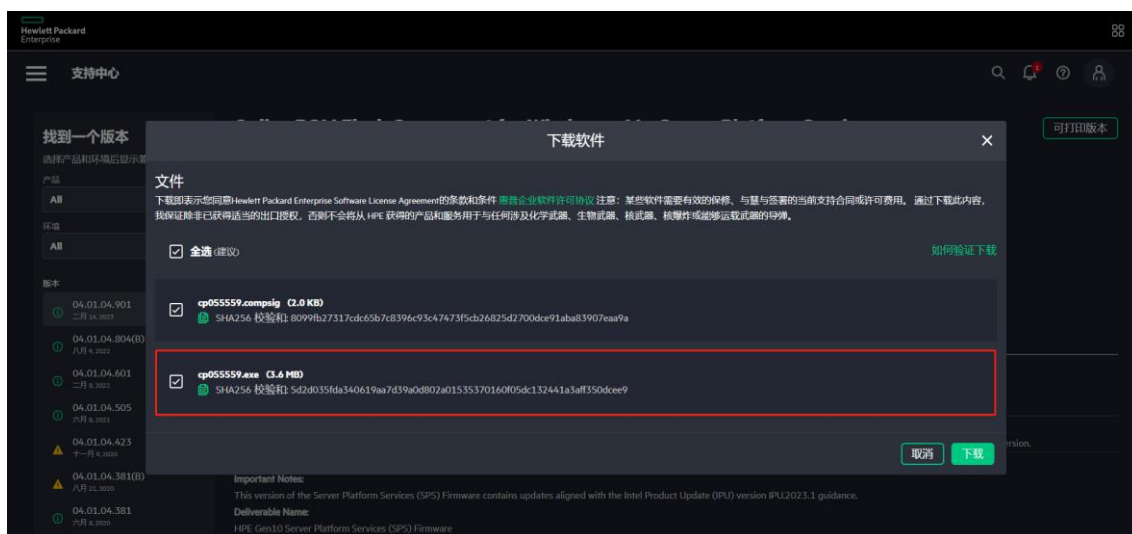
The screenshot shows the iLO 5 interface with a green box highlighting the 'Firmware Update Completed' message. The message states: 'Power on the host server for the changes to take effect. Server Power'. Below the message, the same table of installed firmware components is displayed.

Firmware Name	Firmware Version	Location
Drive	HPD9	Port=118Box=1.Bay=1
Drive	HPD9	Port=118Box=1.Bay=2
Drive	HPD9	Port=118Box=1.Bay=3
Drive	HPD9	Port=118Box=1.Bay=4
Embedded Video Controller	2.5	Embedded Device
HPE Ethernet 1Gb 4-port 331i Adapter - NIC	20.24.41	Embedded LOM
HPE Smart Array P408i-a SR Gen10	5.61	Embedded RAID
HPE Smart Storage Energy Pack 1 Firmware	2.1	Embedded Device
HPE SN1200E 16Gb 2p FC HBA	14.0.499.29	PCI-E Slot 1
iLO 5	2.91 May 18 2023	System Board
Innovation Engine (IE) Firmware	0.2.3.0	System Board
Intelligent Platform Abstraction Data	16.5.0 Build 24	System Board
Intelligent Provisioning	3.81.2	System Board
Language Pack	2.72.05	Simplified Chinese Language Pack
Power Management Controller Firmware	1.0.8	System Board

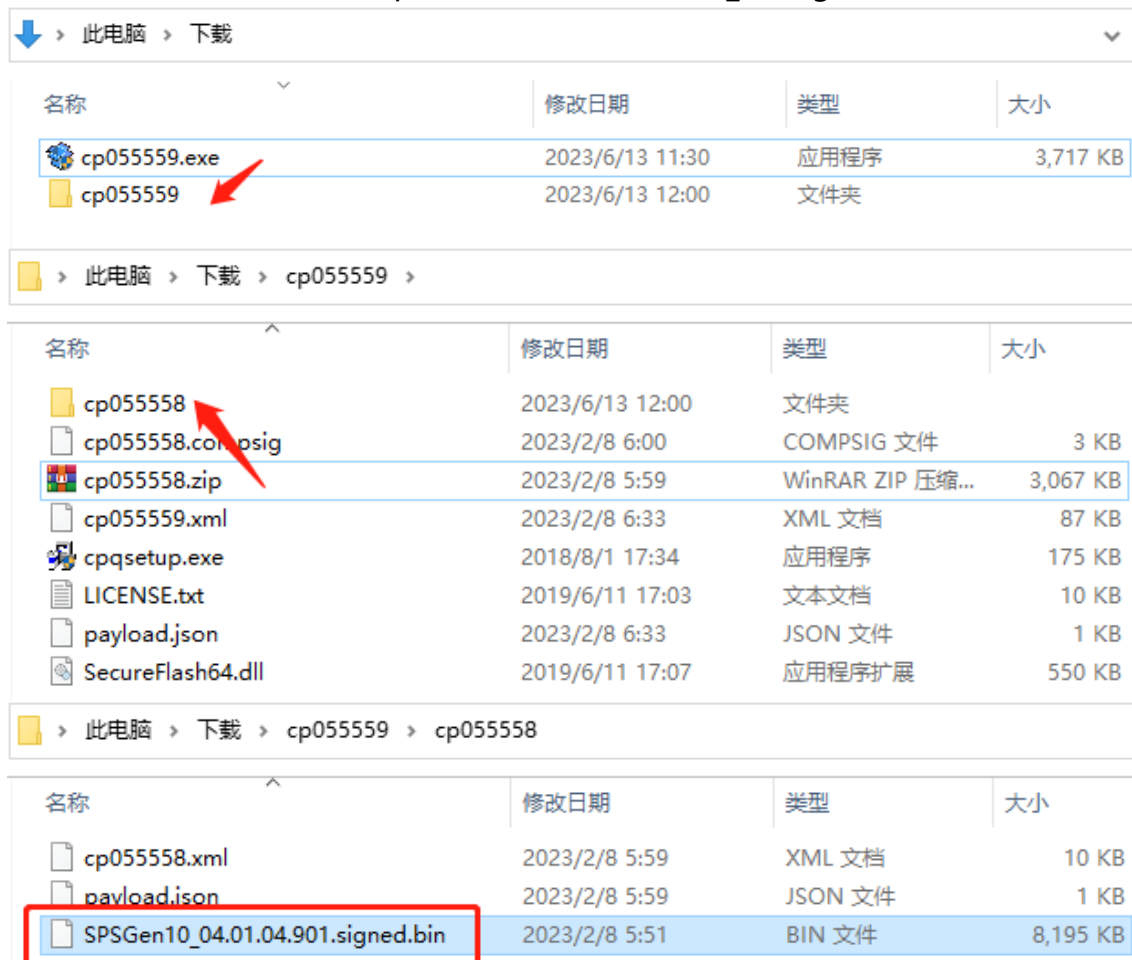
3.2 更新 SPS 固件

3.2.1 下载与解压固件

- 1) 通过 [HPE 官网](#) 搜索对应服务器的 SPS 固件，可选择任意 Windows 系统，下载 exe 固件文件。

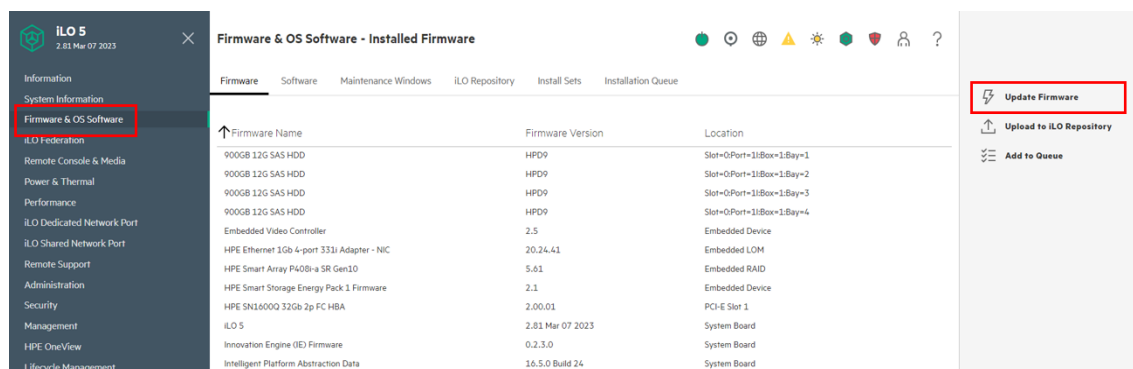


2) 将 exe 文件解压缩，再次对 zip 包解压，获取 SPSGenx_xxx.signed.bin 固件文件。

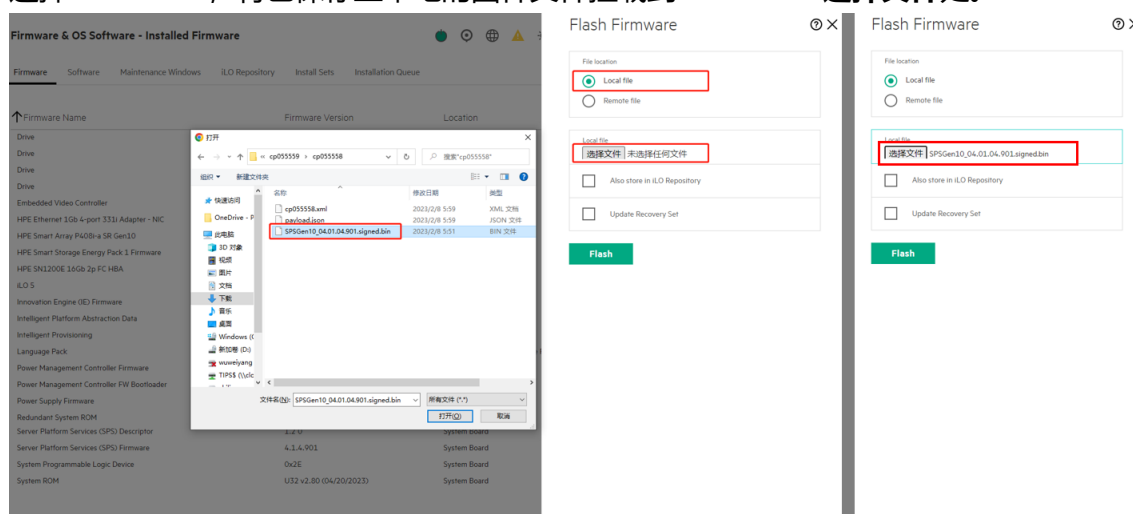


3.2.2 将固件挂载到 iLO 并开始更新

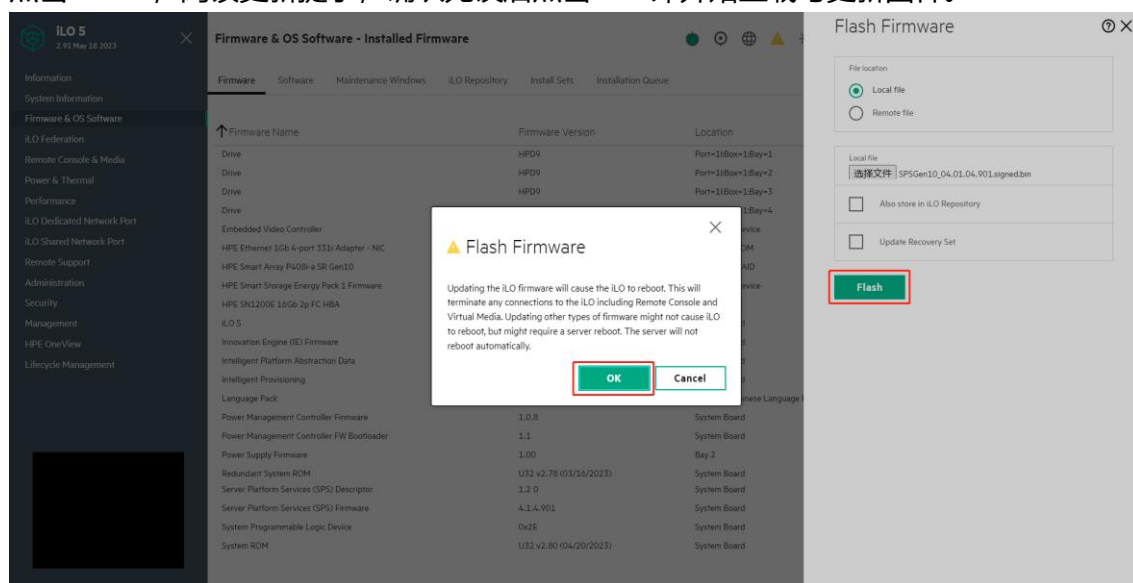
1) 通过浏览器登录 iLO5, 在 **Firmware & OS Software** 页面选择 **Update Firmware**。



2) 选择 **Local file**，将已保存至本地的固件文件挂载到 **Local file 选择文件处**。

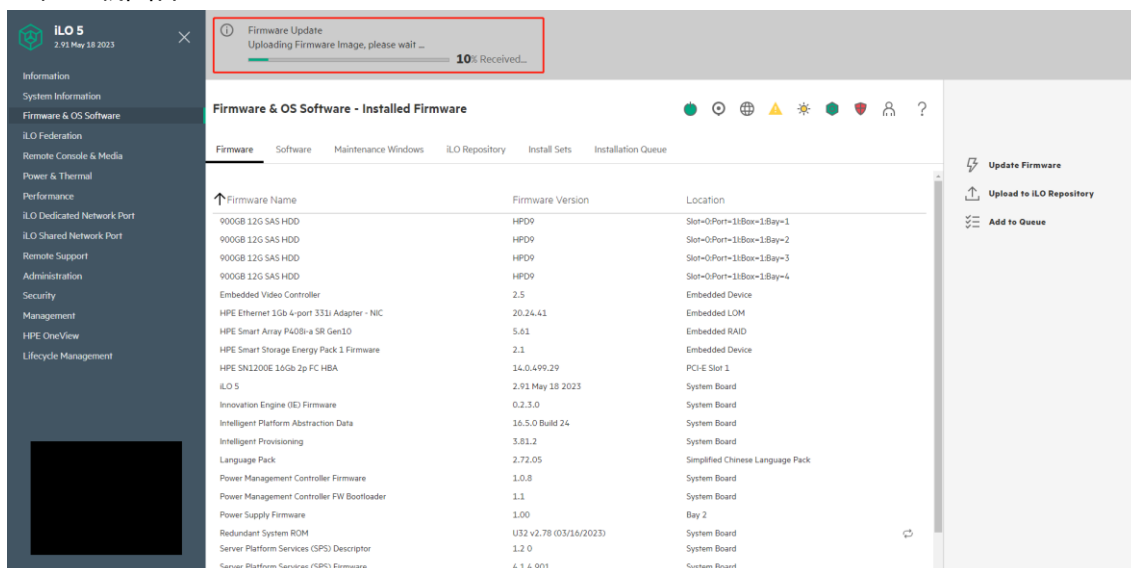


3) 点击 **Flash**，阅读更新提示，确认无误后点击 **OK** 即开始上载与更新固件。

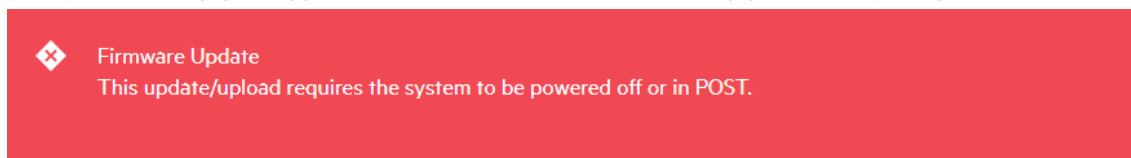


注：上图提示内容为“如果更新 iLO 固件，将导致 iLO 重新引导。这会终止 iLO 的任何连接，包括远程控制台和虚拟介质。更新其它类型的固件可能不会导致 iLO 重新引导，但可能需要重新引导服务器，服务器不会自动重新引导”。

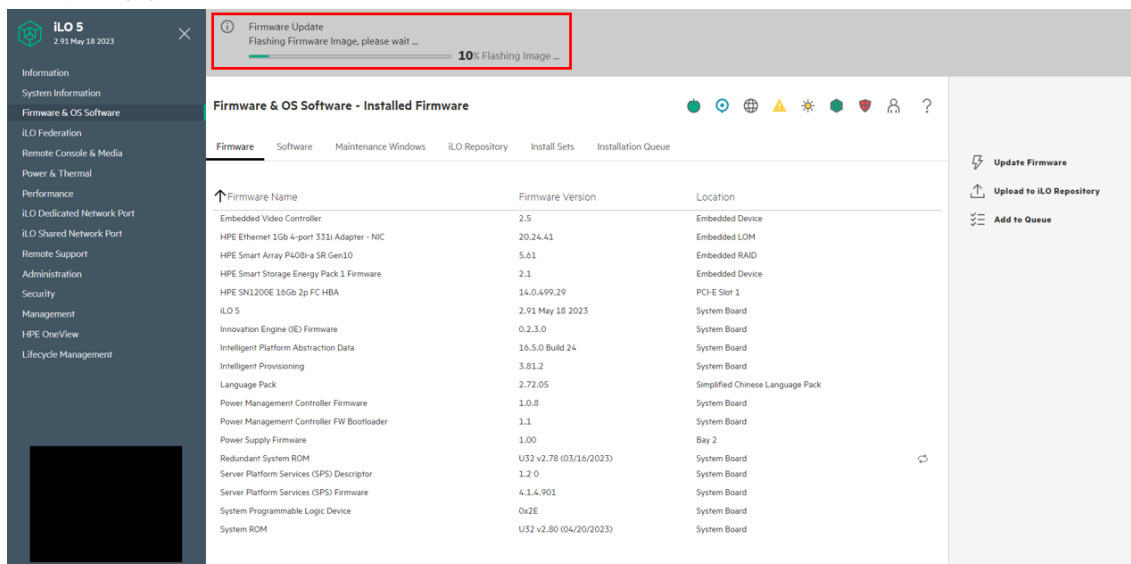
4) 正在上载固件。



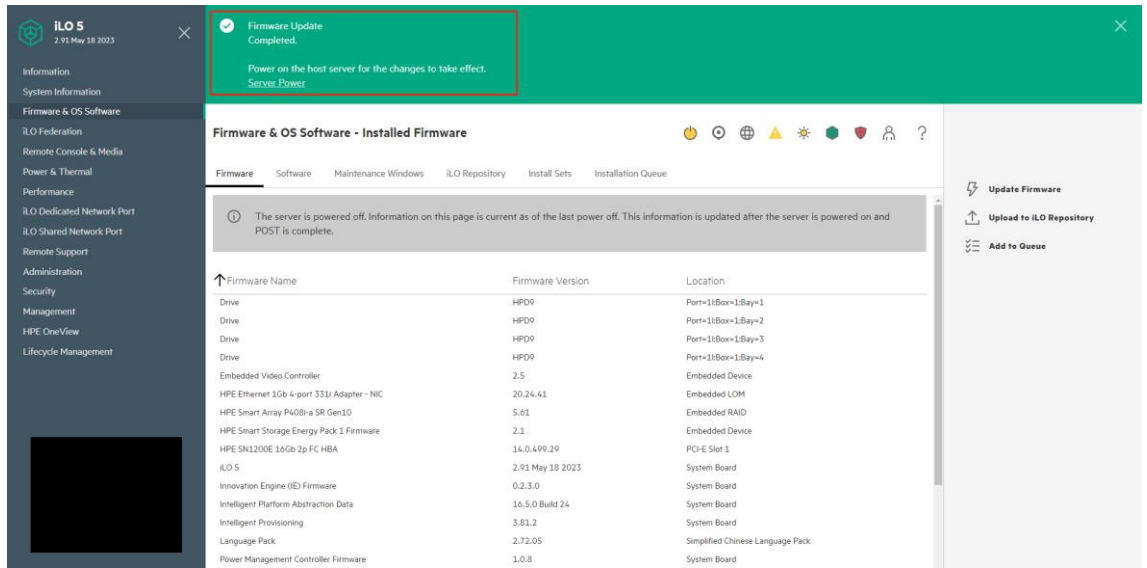
注：更新 SPS 固件需保持服务器为关机状态或处于自检阶段，否则更新将无法执行。



5) 正在更新固件。



6) 更新完成后，将弹出“Firmware Update Completed”提示。服务器不会自动重启，新固件将在下一次重启后生效。



4. 使用 fwpkg 文件进行固件更新

4.1 更新 IE 固件

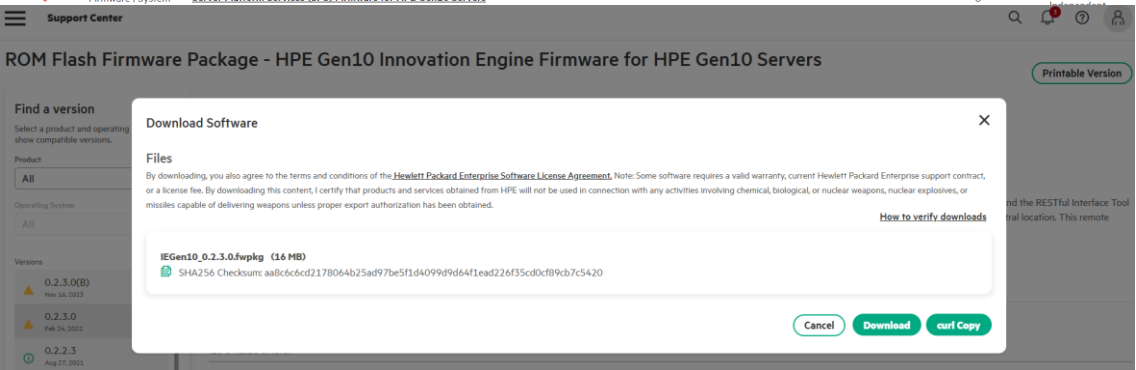
4.1.1 下载固件

通过 [HPE 官网](#) 搜索对应服务器的 IE 固件，选择 OS Independent，下载 fwpkg 固件文件。

HPE ProLiant DL380 Gen10 server

Access product support documents and manuals, software, download drivers by operating environment, and view product support videos.

Severity	Type	Subtype	Title	Version	Environment
▲	Firmware	System	Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11/Gen12 servers usage	1.04(C) 2025-04-03	OS Independent
▲	Firmware	System	ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE Gen10 Servers	04.01.05.10 5 2025-01-23	OS Independent
▲	Firmware	System	ROM Flash Firmware Package - HPE Gen10 Innovation Engine Firmware for HPE Gen10 Servers	0.2.3.0(B) 2023-11-16	OS Independent
▲	Firmware	System	Firmware Package - Gen10 NVMe Backplane PIC Firmware	1.24(F) 2022-09-28	OS Independent
◆	Firmware	System	Server Platform Services (SPS) Firmware for HPE Gen10 Servers	04.00.04.28 8	OS



注：需要 BIOS 固件≥1.26 固件版本，iLO5 固件≥1.20 固件版本。

ROM Flash Firmware Package - HPE Gen10 Innovation Engine Firmware for HPE Gen10 Servers

Printable Version

Find a version
Select a product and operating system to show compatible versions.

Product: All

Operating System: All

Versions:

- 0.2.3.0(B) New 16, 2022
- 0.2.3.0 Feb 24, 2022
- 0.2.2.3 Aug 27, 2021
- 0.2.2.2 Jun 8, 2021
- 0.2.2.0 Apr 5, 2020

Version: 0.2.3.0

Upgrade Requirement: Recommended

Release Date: Feb 24, 2022

Type: Firmware - System

Download Software

This firmware package contains the HPE Gen10 Innovation Engine Firmware for HPE Gen10 Servers. It can be installed online through the use of tools such as Smart Update Manager (SUM) and the RESTful Interface Tool (iLOrest) on supported Operating Systems. Additionally, when used in conjunction with SUM or iLOrest, this firmware package allows the user to update firmware on remote servers from a central location. This remote deployment capability eliminates the need for the user to be physically present at the server in order to perform a firmware update.

Release Notes Revision History Important **Installation Instructions** Fixes

Prerequisites:
System ROM V1.26 or later
iLO 5 v1.20 or later

To ensure the integrity of your download, HPE recommends verifying your results with this SHA-256 Checksum value:
aa8c6c6cd2178044b25ad97be5f1d409949d4f1ead226f35cd0cf8cb7c5420 iEGen10_0.2.3.0.fwpkg

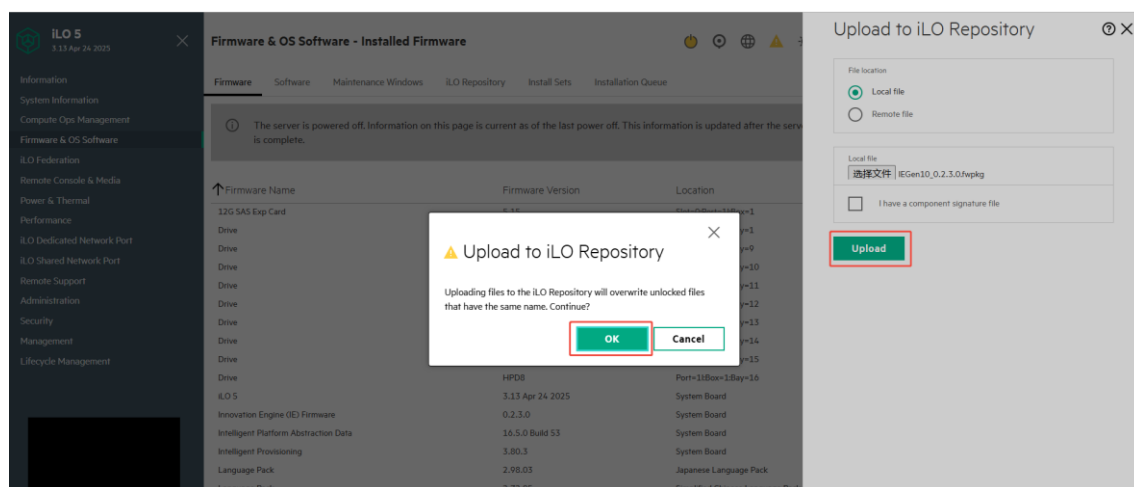
Reboot Requirement:
Reboot is required after installation for updates to take effect and hardware stability to be maintained.

4.1.2 将固件挂载到 iLO 并开始更新

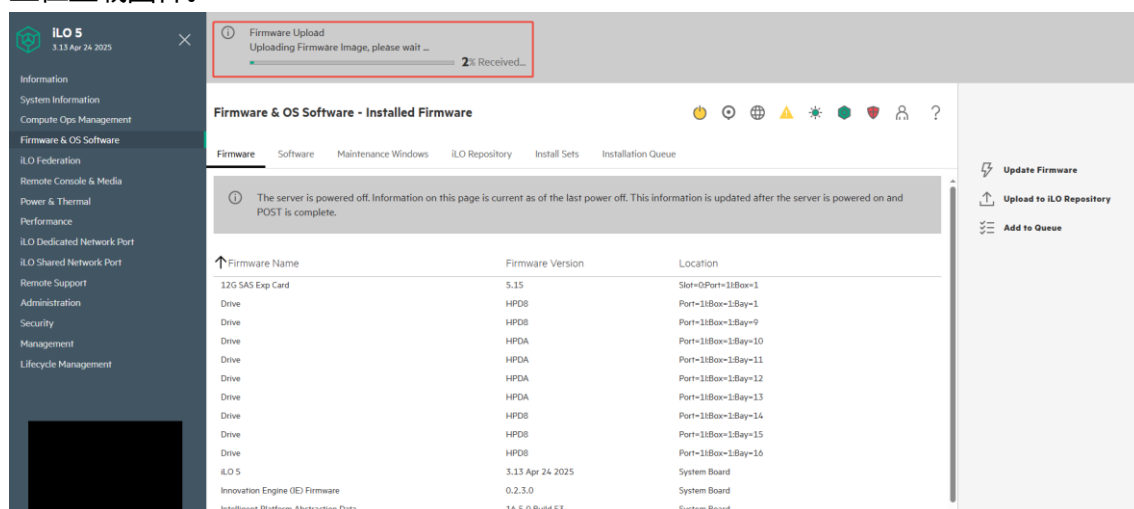
- 1) 通过浏览器登录 iLO5，在 **Firmware & OS Software** 页面选择 **Upload to iLO Repository**。(无法直接使用 Update Firmware 直接更新)

- 2) 选择 **Local file**，将已保存至本地的固件文件挂载到 **Local file** 选择文件处。

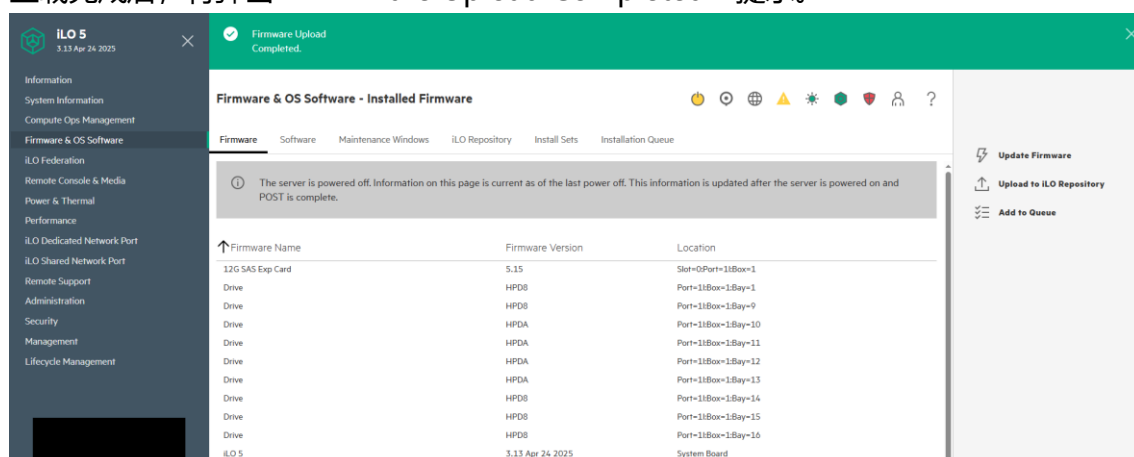
- 3) 点击 **Upload**，阅读上传提示，确认无误后点击 OK 即开始上载与更新固件。



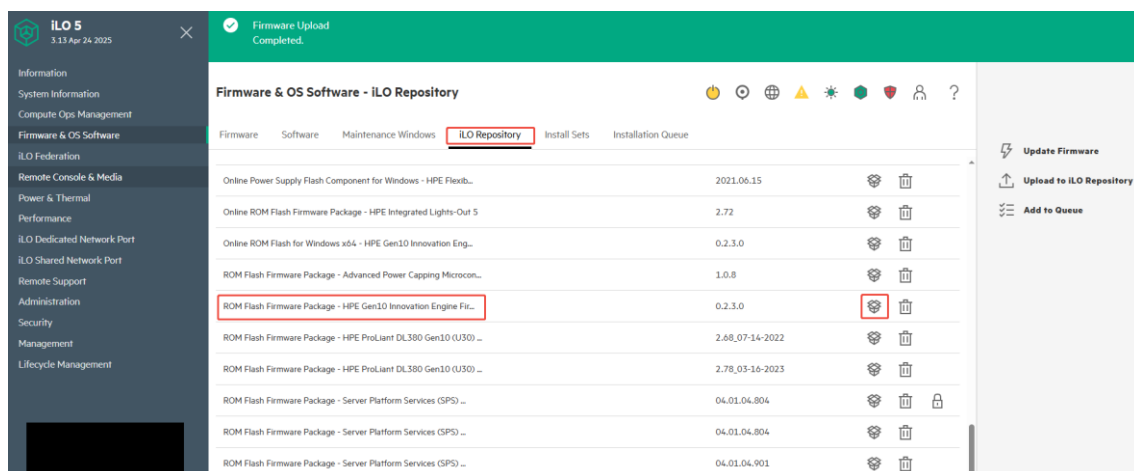
4) 正在上载固件。



5) 上载完成后，将弹出“Firmware Upload Completed”提示。



6) 在 **Firmware & OS Software** 页面选择 **iLO Repository**，将 iLO 存储库中的 IE 固件添加到安装队列中，点击小箱子图标，然后点击 **Yes, add to the end of the queue** 确认加入到安装队列。



Install Component



Are you sure you want to install this component?

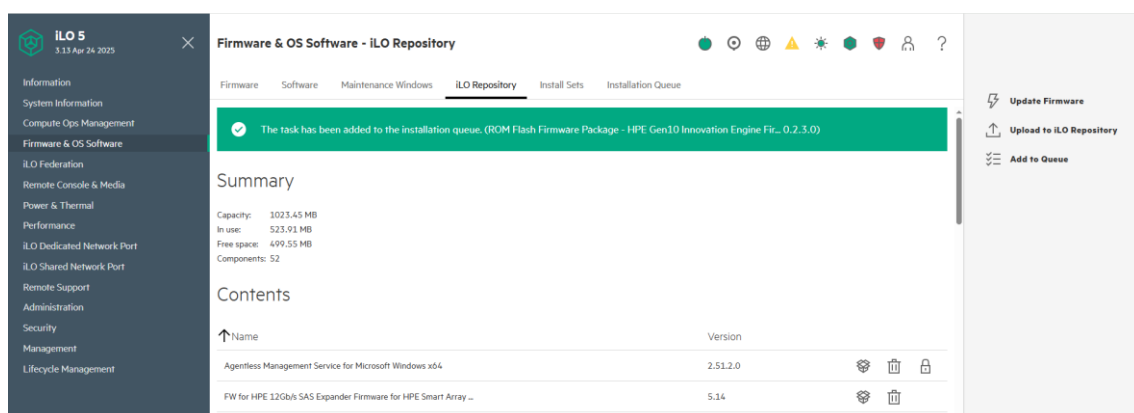
ROM Flash Firmware Package - HPE Gen10 Innovation Engine Fir... 0.2.3.0



Set schedule window

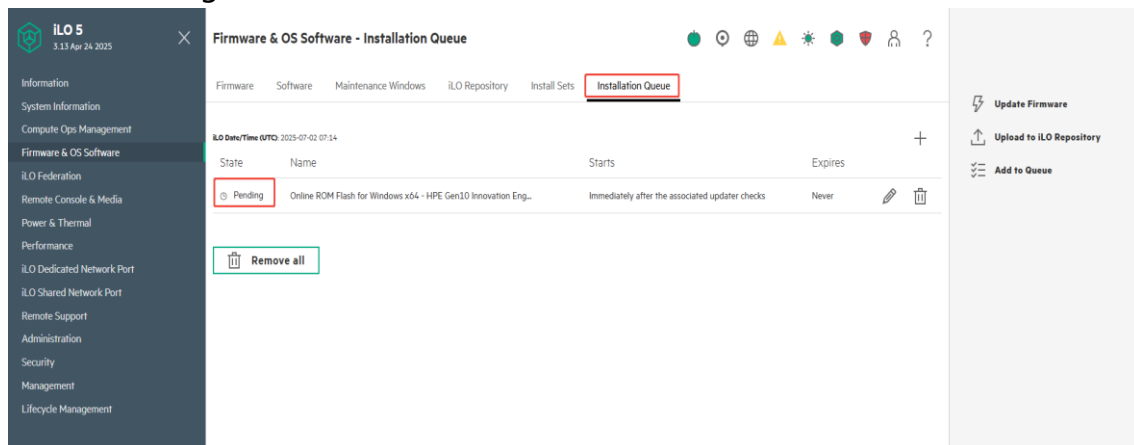
This task will be added to the end of the installation queue (0 items).

Yes, add to the end of the queue

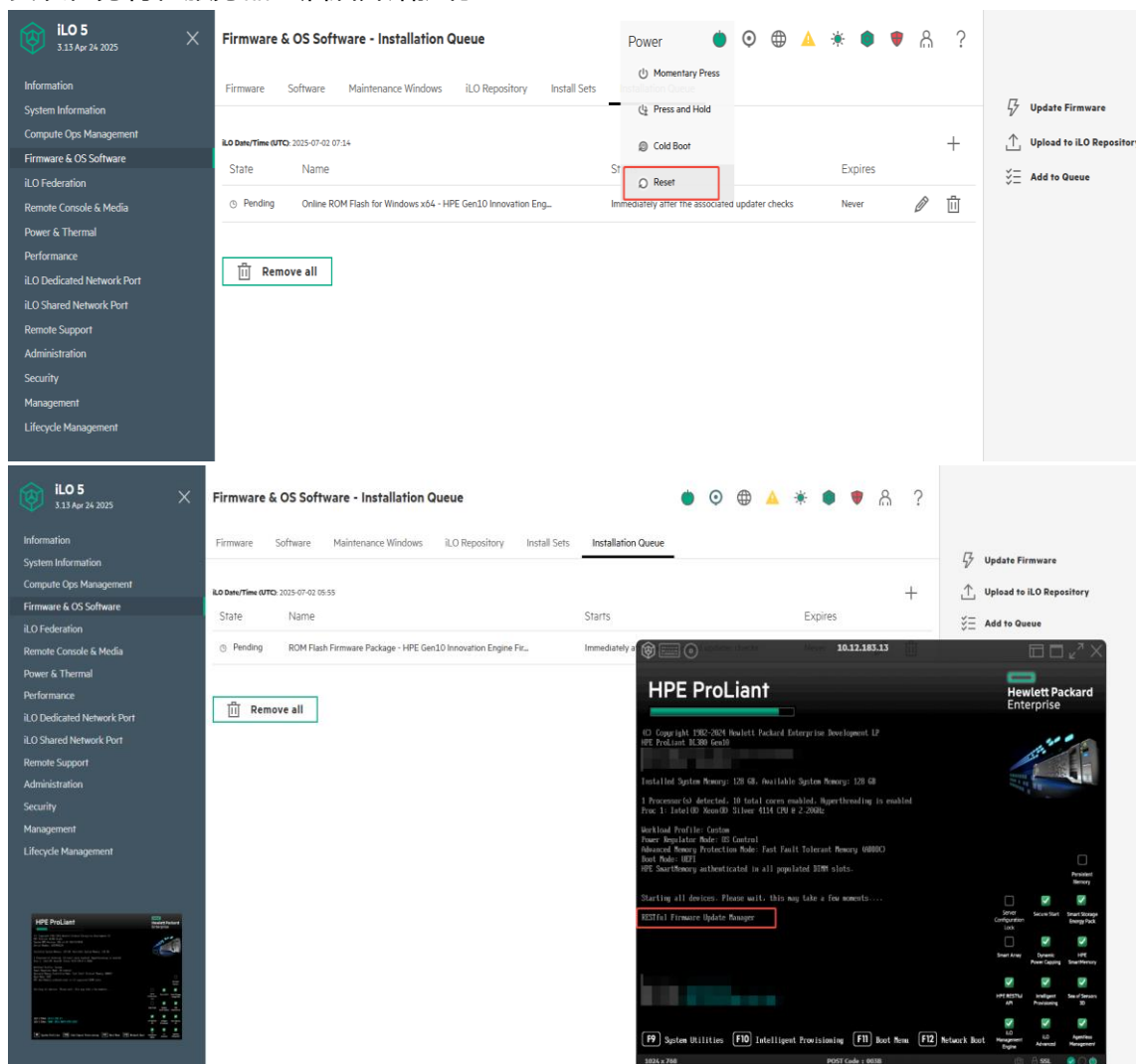


注：加入安装队列不会直接对固件进行更新，加入成功后将提示“The task has been added to the installation queue.”。

- 7) 在 **Firmware & OS Software** 页面选择 **Installation Queue**, 可查看到安装任务, 状态为 Pending。



- 8) 通过 iLO5 页面 **Power** 开关选择 **Reset**, 或按服务器物理电源按钮, 均可实现重启。安装任务将在服务器重启后开始执行。



9) 正在更新固件。

iLO 5
3.13 Apr 24 2025

Information
System Information
Compute Ops Management
Firmware & OS Software
iLO Federation
Remote Console & Media
Power & Thermal
Performance
iLO Dedicated Network Port
iLO Shared Network Port
Remote Support
Administration
Security
Management
Lifecycle Management

Firmware Update
Verifying Firmware Image, please wait ...

Firmware & OS Software - Installation Queue

iLO Data/Time (UTC): 2025-07-02 05:58			
State	Name	Starts	
In Progress	ROM Flash Firmware Package - HPE Gen10 Innovation Engine Fir...	Immediately after	

Remove all

HPE ProLiant
Hewlett Packard Enterprise

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HPE ProLiant 10.12.183.13

Installed System Memory: 128 GB. Available System Memory: 536 GB
1 Processor(s) detected. 10 total cores enabled. Hyperthreading is enabled.
Proc 1: Intel(R) Xeon(R) Silver 4114 CPU @ 2.20GHz

Workload Profile: Custom
Power Regulator Mode: RD Control
Advanced Memory Protection Mode: Fast Fault Tolerant Memory (MTRR)
Boot Mode: UEFI
iLO SecureBoot authenticated in all populated ROM slots.

Starting all devices. Please wait, this may take a few moments....

Successful Firmware Update Manager
Loading Firmware (file HPE010-0-2.3.0-firmware). It might take several minutes.
The iLO was read successfully.
Applying Firmware Update. Please wait...
Updating Firmware. Completed 50 %

Firmware Update
Flashing Firmware Image, please wait ... 8% Flashing Image ...

Firmware & OS Software - Installation Queue

iLO Data/Time (UTC): 2025-07-02 05:58				
State	Name	Starts	Expires	
In Progress	ROM Flash Firmware Package - HPE Gen10 Innovation Engine Fir...	Immediately after the associated update checks	Never	

Remove all

Update Firmware
Upload to iLO Repository
Add to Queue

10) 更新完成。

iLO 5
3.13 Apr 24 2025

Information
System Information
Compute Ops Management
Firmware & OS Software
iLO Federation
Remote Console & Media
Power & Thermal
Performance
iLO Dedicated Network Port
iLO Shared Network Port
Remote Support
Administration
Security
Management
Lifecycle Management

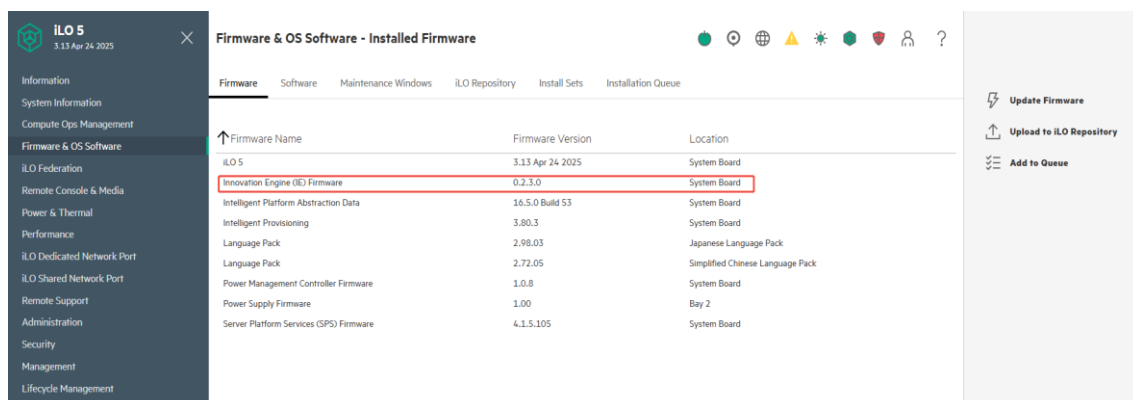
Firmware Update
Completed.

Firmware & OS Software - Installation Queue

iLO Data/Time (UTC): 2025-07-02 06:12				
State	Name	Starts	Expires	
Complete	ROM Flash Firmware Package - HPE Gen10 Innovation Engine Fir...	N/A	Never	

Remove all

Update Firmware
Upload to iLO Repository
Add to Queue



4.2 更新 SPS 固件

4.2.1 下载固件

通过 [HPE 官网](#) 搜索对应服务器的 SPS 固件，选择 OS Independent，下载 fwpkg 固件文件。

HPE ProLiant DL380 Gen10 server

Access product support documents and manuals, software, download drivers by operating environment, and view product support videos.

Manuals Knowledge Articles **Drivers and Software** Alerts Videos Feedback

Find in Drivers and Software

☐ View Critical **Firmware** Driver BIOS Application Utility Software Update

Subtype: System Operating Environment Type: OS Independent Operating Environment Subtype: All

You are viewing the most relevant and current results for this product.

Showing 1-5 of 5

Severity	Type Subtype	Title	Version	Environment
▲	Firmware System	Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11/Gen12 servers usage	1.04(C) 2025-04-03	OS Independent
▲	Firmware System	ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE Gen10 Servers	04.01.05.10 5 2025-01-23	OS Independent
▲	Firmware System	ROM Flash Firmware Package - HPE Gen10 Innovation Engine Firmware for HPE Gen10 Servers	0.2.3.0(B) 7 2023-11-10	OS Independent

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE Gen10 Servers Printable Version

Find a version
Select a product and operating system to show compatible versions.

Product: All
Operating System: All
Versions: 04.01.05.105 (Jan 23, 2025), 04.01.05.002 (Aug 8, 2023), 04.01.04.901 (Feb 14, 2023), 04.01.04.804(B) (Aug 9, 2022), 04.01.04.601 (Jul 10, 2022)

Download Software

Files
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SPSGen10_04.01.05.105.fwpkg (8.0 MB)
SHA256 Checksum: d2c2847dd82823dc4577a006c7f786ab6e7b3af6d1b8d194d8c1f6ba8b859be7

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The "iLO 5 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).
To ensure the integrity of your download, HPE recommends verifying your results with this SHA-256 Checksum value:
d2c2847dd82823dc4577a006c7f786ab6e7b3af6d1b8d194d8c1f6ba8b859be7 SPSPGen10_04.01.05.105.fwpkg
Reboot Requirement:

注：需要 BIOS 固件≥1.26 固件版本，IE 固件≥0.1.5.2 固件版本

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for HPE Gen10 Servers

Printable Version

Find a version
Select a product and operating system to show compatible versions.

Product: All

Operating System: All

Versions:

- 04.01.05.105 (Latest) Apr 23, 2025
- 04.01.05.002 Aug 6, 2023
- 04.01.04.901 Feb 24, 2023
- 04.01.04.804(B) Feb 6, 2022
- 04.01.04.601 Feb 6, 2022
- 04.01.04.505(B) Sep 1, 2021
- 04.01.04.505 Jun 8, 2021

Version: 04.01.05.105 Upgrade Requirement: Recommended Release Date: Jan 23, 2025 Reboot Requirement: Required Type: Firmware - System

Download Software

This firmware package contains the HPE Gen10 SPS Firmware for HPE Gen10 Servers. It can be installed online through the use of tools such as Smart Update Manager (SUM) and the RESTful Interface Tool (iLOrest) on supported Operating Systems. Additionally, when used in conjunction with SUM or iLOrest, this firmware package allows the user to update firmware on remote servers from a central location. This remote deployment capability eliminates the need for the user to be physically present at the server in order to perform a firmware update.

Release Notes Revision History Important **Installation Instructions** Enhancements

Prerequisites:
HPE Gen10 system ROM version 1.26 or later
HPE Gen10 Innovation Engine (IE) Firmware version 0.1.5.2 or later
The "iLO 5 Channel Interface Driver" (CHIF) for Windows which is available from Service Pack for ProLiant (SPP).

To ensure the integrity of your download, HPE recommends verifying your results with this SHA-256 Checksum value:
d2c2847d882823dc4577a006c7f786ab67b3ad1b8d194d8c116ba8b859be7 SP5Gen10_04.01.05.105.fwpkg

Reboot Requirements:
Reboot is required after installation for updates to take effect and hardware stability to be maintained.

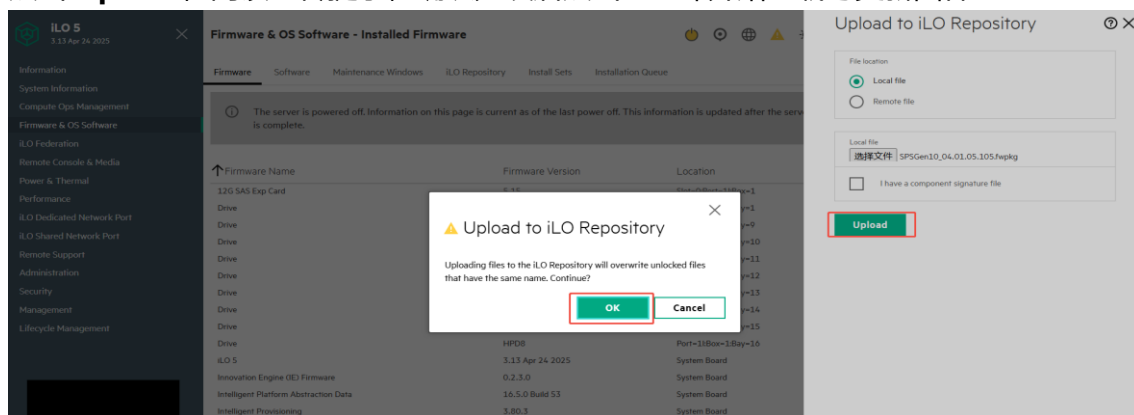
Installation:
To flash this firmware package, use the following iLOrest command. See <https://www.hpe.com/info/resttool> to download the latest version of the iLOrest tool.
localhost OS example:
`iLOrest flashfwpkg <file_name.fwpkg>`

4.2.2 将固件挂载到 iLO 并开始更新

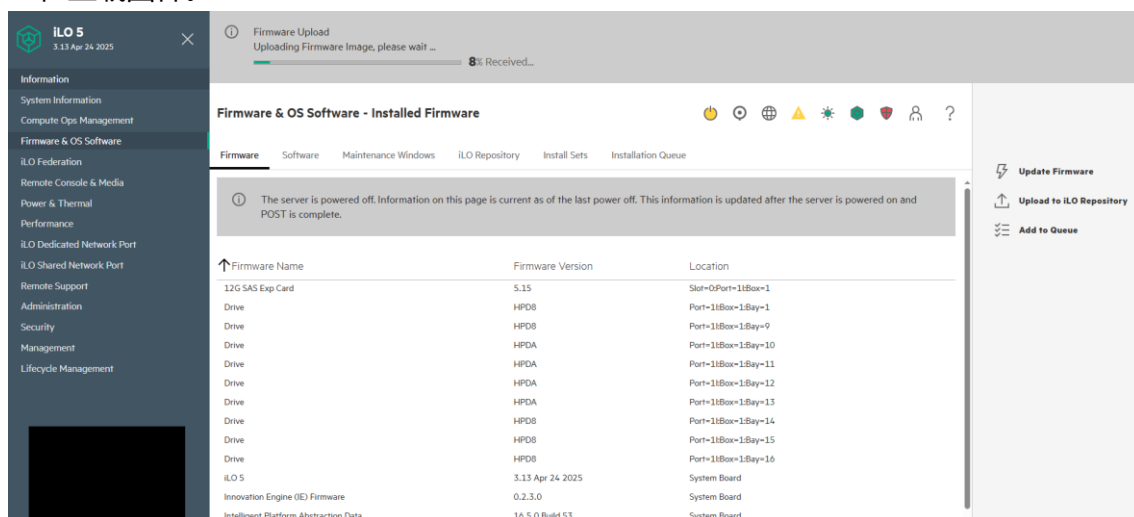
- 1) 通过浏览器登录 iLO5，在 **Firmware & OS Software** 页面选择 **Upload to iLO Repository**。(无法直接使用 Update Firmware 直接更新)

The screenshot shows the iLO 5 interface. The left sidebar has 'Firmware & OS Software' selected. The main area is titled 'Firmware & OS Software - Installed Firmware'. It contains a table with columns: Firmware Name, Firmware Version, and Location. The table lists various components like SAS Exp Card, Drive, HPDA, HPD8, HPD0, HPD1, HPD2, HPD3, HPD4, HPD5, HPD6, HPD7, HPD8, HPD9, HPD10, HPD11, HPD12, HPD13, HPD14, HPD15, HPD16, HPD17, HPD18, HPD19, HPD20, HPD21, HPD22, HPD23, HPD24, HPD25, HPD26, HPD27, HPD28, HPD29, HPD30, HPD31, HPD32, HPD33, HPD34, HPD35, HPD36, HPD37, HPD38, HPD39, HPD40, HPD41, HPD42, HPD43, HPD44, HPD45, HPD46, HPD47, HPD48, HPD49, HPD50, HPD51, HPD52, HPD53, HPD54, HPD55, HPD56, HPD57, HPD58, HPD59, HPD60, HPD61, HPD62, HPD63, HPD64, HPD65, HPD66, HPD67, HPD68, HPD69, HPD70, HPD71, HPD72, HPD73, HPD74, HPD75, HPD76, HPD77, HPD78, HPD79, HPD80, HPD81, HPD82, HPD83, HPD84, HPD85, HPD86, HPD87, HPD88, HPD89, HPD90, HPD91, HPD92, HPD93, HPD94, HPD95, HPD96, HPD97, HPD98, HPD99, HPD100, HPD101, HPD102, HPD103, HPD104, HPD105, HPD106, HPD107, HPD108, HPD109, HPD110, HPD111, HPD112, HPD113, HPD114, HPD115, HPD116, HPD117, HPD118, HPD119, HPD120, HPD121, HPD122, HPD123, HPD124, HPD125, HPD126, HPD127, HPD128, 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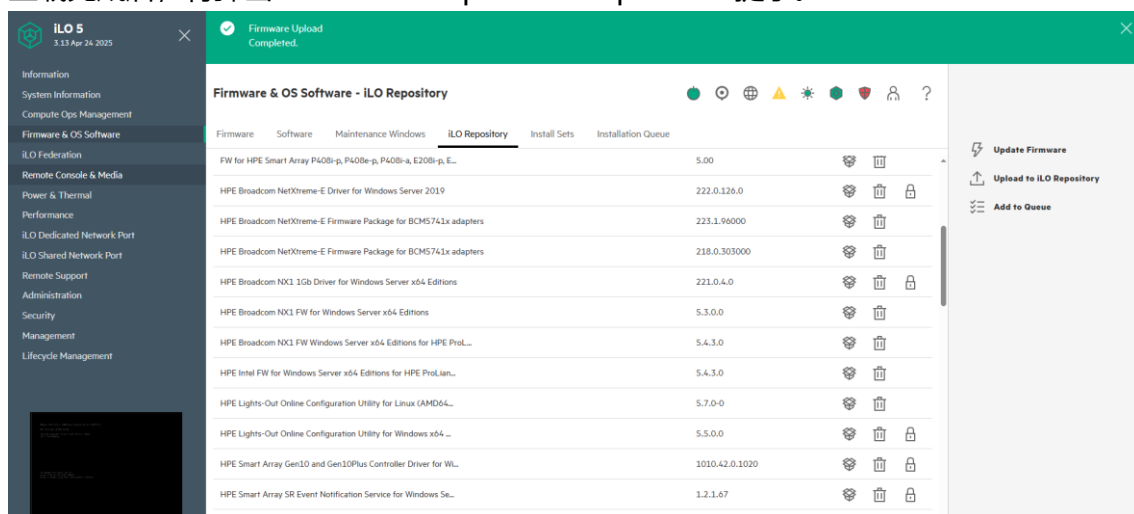
- 3) 点击 **Upload**，阅读上传提示，确认无误后点击 **OK** 即开始上载与更新固件。



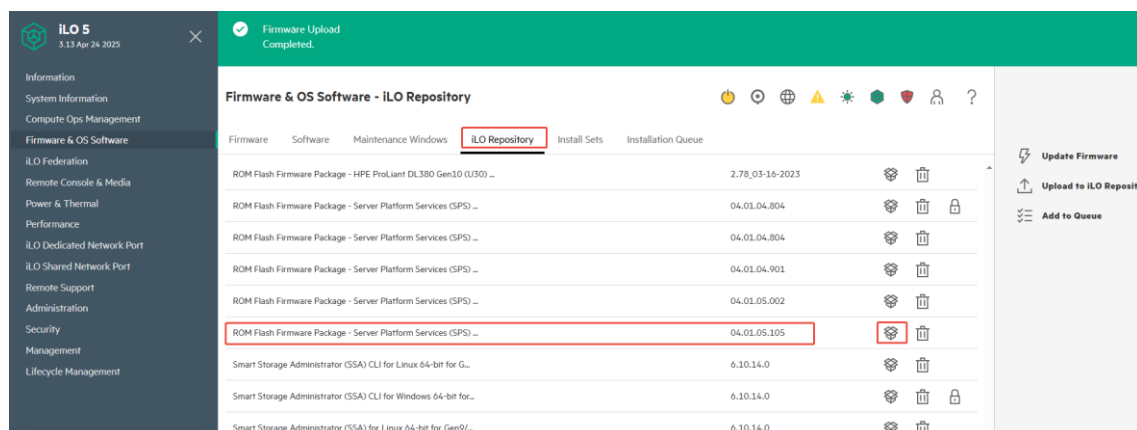
- 4) 正在上载固件。



- 5) 上载完成后，将弹出“Firmware Upload Completed”提示。



- 6) 在 **Firmware & OS Software** 页面选择 **iLO Repository**，将 iLO 存储库中的 SPS 固件添加到安装队列中，点击小箱子图标，然后点击 **Yes, add to the end of the queue** 确认加入到安装队列。



Install Component



Are you sure you want to install this component?

ROM Flash Firmware Package - Server Platform Services (SPS)
... 04.01.05.105



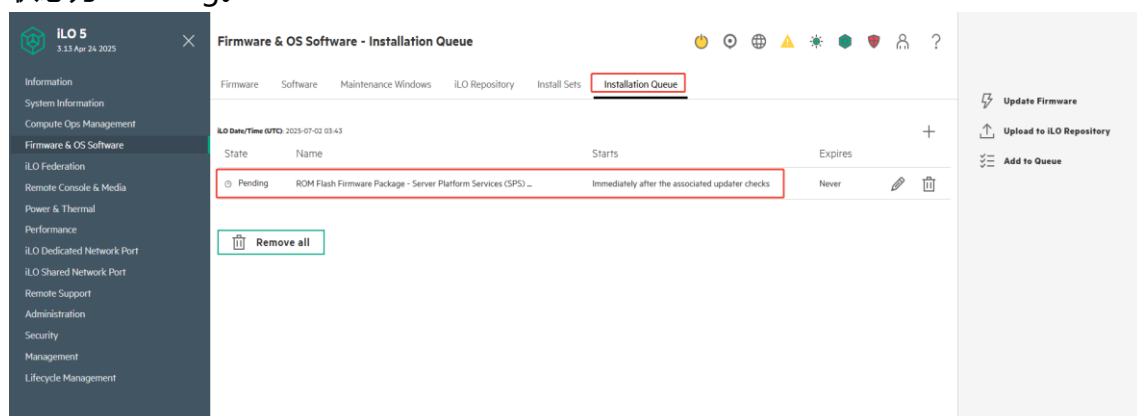
Set schedule window

This task will be added to the end of the installation queue (0 items).

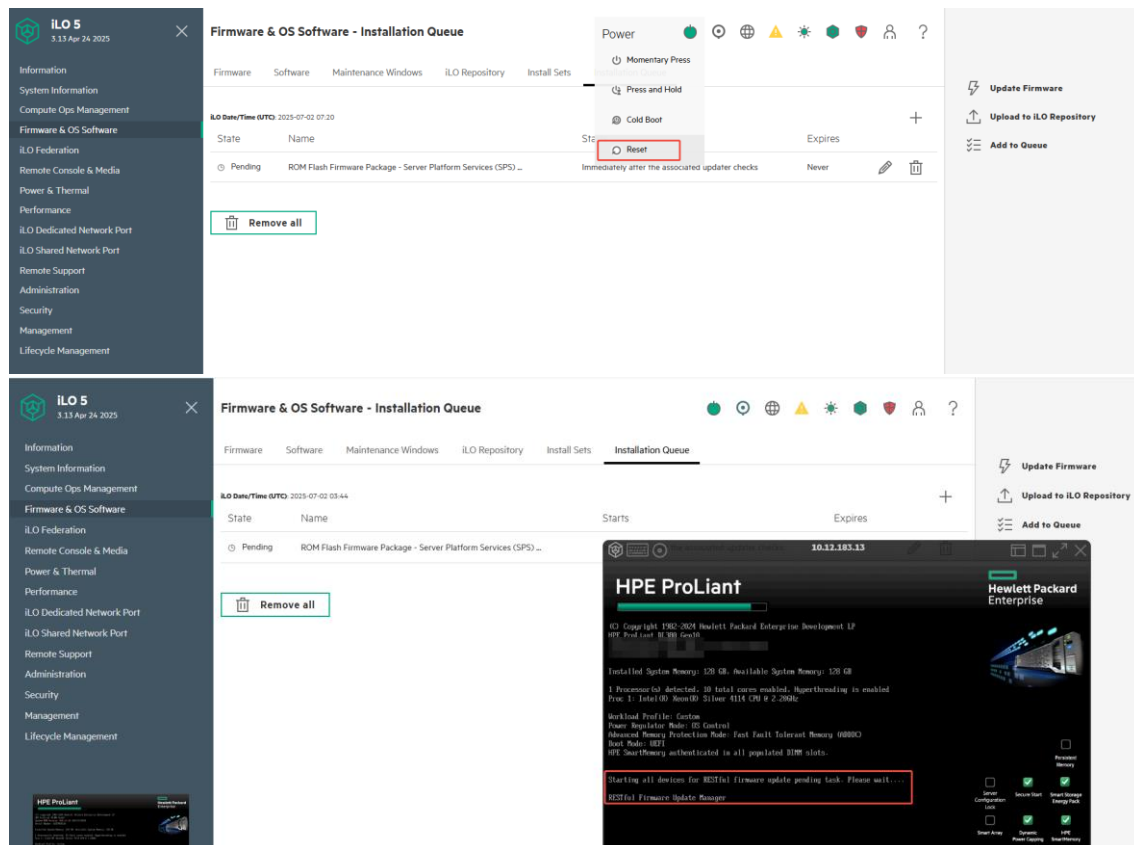
Yes, add to the end of the queue

注：加入安装队列不会直接对固件进行更新，加入成功后将提示“The task has been added to the installation queue.”。

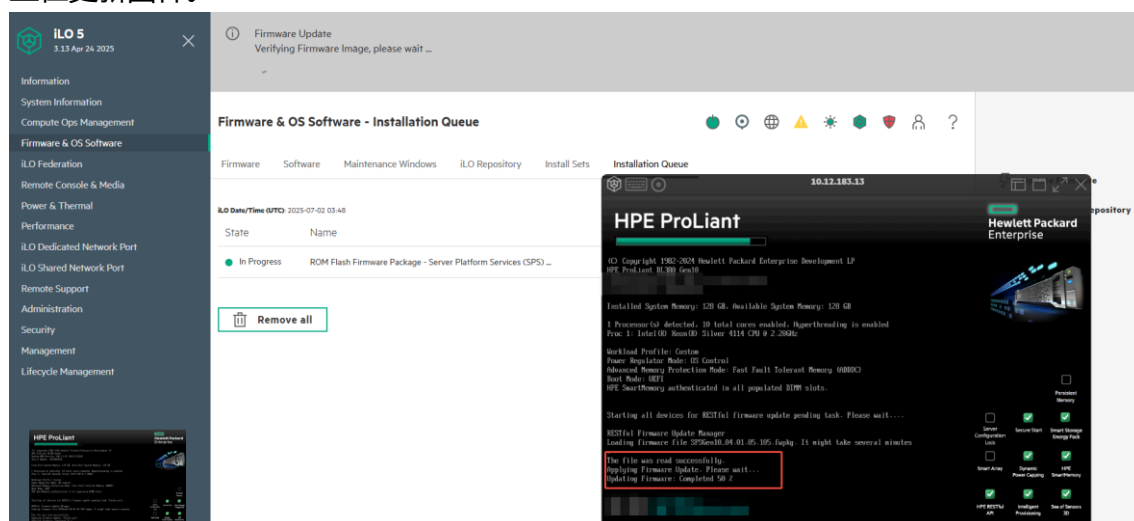
- 7) 在 **Firmware & OS Software** 页面选择 **Installation Queue**，可查看到安装任务，状态为 Pending。

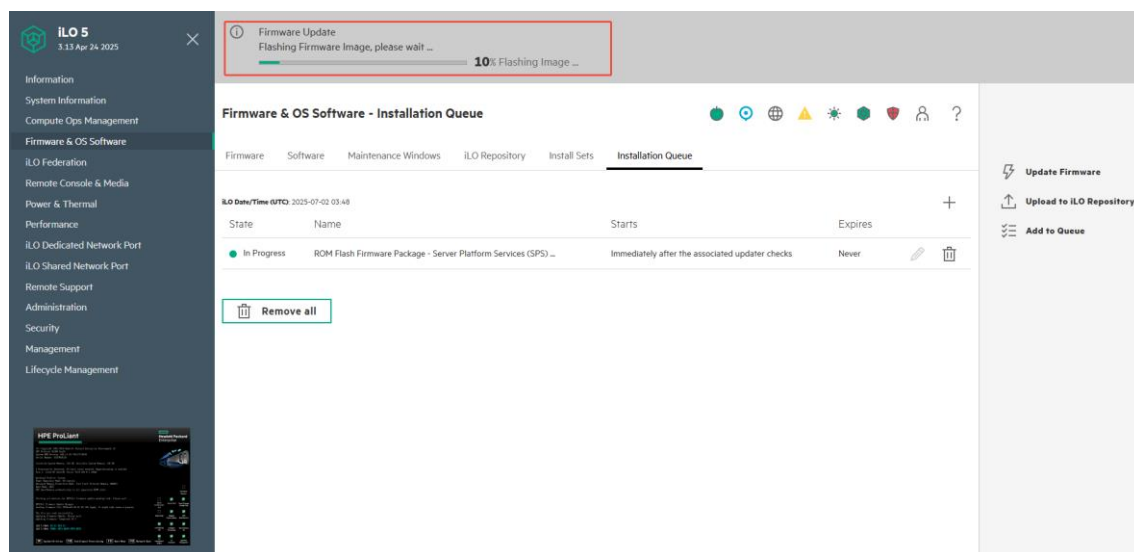


- 8) 通过 iLO5 页面 **Power** 开关选择 **Reset**, 或按服务器物理电源按钮, 均可实现重启。
安装任务将在服务器重启后开始执行。

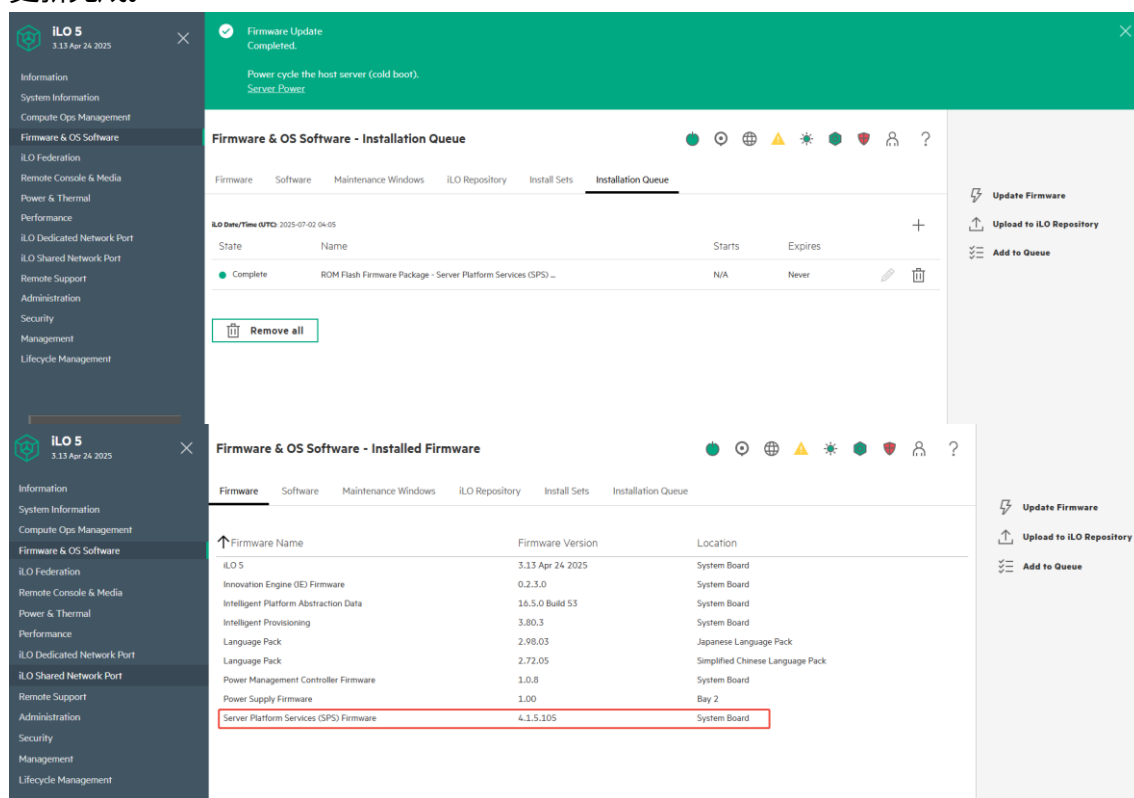


- 9) 正在更新固件。





10) 更新完成。



5. 检查固件更新后的版本

与本文<[2.通过 iLO5 检查固件更新前的版本](#)>方法一致，完成更新后可到 iLO5 相应页面查看更新后的固件版本，以验证更新是否成功。