

# HP Service Pack for ProLiant FAQs



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## HP Service Pack for ProLiant (SPP) overview

### 1. What is SPP?

SPP is a collection of firmware packages for HP ProLiant servers, controllers, storage, blades, and enclosures, as well as other system software components (drivers, agents, utilities), all tested together as a bundled set for an extended cycle. All of these firmware and software components are deployed by HP Smart Update Manager (HP SUM). The SPP does not support HP Integrity servers. The SPP deploys firmware, drivers and applications for Linux and Windows®-based ProLiant and BladeSystem servers, and firmware for many VMware-based systems. To see what specific OS versions are supported on your server, please check your server's QuickSpecs or the SPP server support guides found at [hp.com/go/SmartUpdate](http://hp.com/go/SmartUpdate).

Starting with SPP version 2012.10.0, the SPP contains offline Insight Diagnostics and offline Array Configuration Utility, which was renamed Smart Storage Administrator (SSA) in release 2013.09.0.

The SPP is much more than just a collection of smart components packaged with HP SUM. It is also a maintenance process and a Web experience. The maintenance process includes Hot Fixes and supplements. The Web experience starts with a single website, [hp.com/go/spp](http://hp.com/go/spp), which contains links to the other SPP-related websites. More information on each of the above items can be found throughout this document.

Additionally, the SPP has the following functionality:

- Online mode—Runs on a Windows or Linux-hosted operating system
- Offline mode—Server boots to the SPP ISO (bootable ISO only)
  - Automatic mode—Firmware components update without interaction
  - Interactive mode—Onscreen instructions guide the user to update firmware components

### 2. How does SPP relate to HP Smart Update?

HP Smart Update, [hp.com/go/SmartUpdate](http://hp.com/go/SmartUpdate), is the umbrella technology that encompasses several products, including both HP SUM and the SPP. The HP Smart Update website serves as a “one-stop shop” portal for HP SUM and the SPP, as well as other products.

### 3. What is the difference between HP SPP and HP SUM?

The SPP is a delivery mechanism for the firmware and software components for HP ProLiant servers, options, and the HP BladeSystem infrastructure, including enclosure components. HP SUM is the deployment tool used to plan, schedule, and deploy the components delivered with the SPP.

### 4. What determines when an SPP is released?

SPP releases are driven by major HP ProLiant server releases, which occur several times a year. Although driven by the server releases, an SPP may not be released with every HP ProLiant server release. An SPP may also be released outside of a server release, so exceptions occur to the SPP's delivery cycle alignment with major ProLiant server releases.

### 5. What is the SPP deliverable format?

The SPP is a family of deliverables with the full ISO supporting multiple servers and operating systems. The Maintenance Supplement Bundle is delivered as a zip file, and is intended to be applied on top of the SPP. The ISOs and subsets available are:

- HP Service Pack for ProLiant
- Maintenance Supplement Bundle

## 6. How can I get the SPP?

The SPP is available for customers to download and use on products which are under an active warranty or an HP Support Agreement from the SPP site at [hp.com/go/spp](http://hp.com/go/spp) or the SPP download site at [hp.com/go/spp/download](http://hp.com/go/spp/download). Additionally, links to the SPP are found on most HP ProLiant server pages or by searching the HP Support Center (HPSC) on [hp.com](http://hp.com).

## 7. What is the Web and documentation experience for the SPP?

The SPP Web experience available at [hp.com/go/spp](http://hp.com/go/spp) describes the SPP for first time users and the download pages at [hp.com/go/spp/download](http://hp.com/go/spp/download) provide a simple experience for retrieving the SPP, Hot Fixes and advisories, supplements, and related documentation. All SPPs in the current support window are available in an easy to understand consistent format and are available for customers to download and use on products which are under an active warranty or an HP Support Agreement. The current SPP is presented by default with other SPPs being accessed from the release archive tab. Hot Fixes and supplemental releases appear on the page of the SPP for which they were issued. The Documentation tab provides easy access to documents relating to the versions available in the “current” support window.

## HP SPP associated features—process related

### 1. What deployment modes are available?

The following table defines the HP SUM deployment methods with the SPP:

Deployment term	Definition
Local	HP SUM runs on the physical hardware you are updating.
Remote	HP SUM runs on one system, but updates other physical targets across a network.
Online	<p>The component deployment occurs while the host processor is running in the normal server environment. For example, if the server runs Microsoft Windows Server 2008, the update takes place under this environment.</p> <p>The update does not require you to boot to a special environment to update the firmware. You might need to reboot the target to activate the firmware.</p>
Offline	<p>The server boots to a small Linux kernel and enables updates to occur on a single server. HP SUM can be run automatically (default) or interactively.</p> <ul style="list-style-type: none"> <li>• Only updates the local system</li> <li>• Only uses a single repository</li> </ul> <p><b>Note</b> Some features of HP SUM that require the regular local host operating systems are not supported in offline mode.</p>

These terms can be used in combination to designate the type of environment required for updates to occur, such as local-online or remote-online.

## 2. What are Hot Fixes and where can I find them?

Hot Fixes are software and firmware component updates that are deemed important enough to merit a special release outside the normal SPP release cycle, so the fix can get to the user base in a timely manner. Hot Fixes can be applied to HP ProLiant systems running the components of an associated SPP. They are considered so important that they must be released broadly and cannot wait for the next SPP release. Hot Fixes are tested against the current SPP and earlier SPPs within the support window. A Customer Advisory (CA) is also published to help customers determine if the fix is needed in their environments.

Each Hot Fix is listed on the “Hot Fix and Advisories” page associated with a specific SPP. These pages are available from the SPP download page, [hp.com/go/spp/download](http://hp.com/go/spp/download).

## 3. What is an SPP Supplement release and where can I find it?

An SPP Supplement release is a bundle containing software and/or firmware components. It may or may not include a version of HP SUM. It may include support for a new operating system update or functionality that is not included in the SPP but works with the components in the SPP. The software and firmware included in the supplement will provide support for functionality that is required outside a normal SPP release cycle. Supplements allow HP to deliver support when it is needed, so customers do not have to wait on the availability of a full SPP. Each SPP Supplement version matches the version of its corresponding SPP. Supplement release notes are available and include information on the components in the bundle. If the supplement contents include Linux components, the components will also be available on the Linux Software Delivery Repository (SDR) at [hp.com/go/sdr](http://hp.com/go/sdr). Once released, the SPP Supplement content is included in the next available SPP.

To find information on supplements:

- SPP Supplements can be downloaded from the SPP download page at [hp.com/go/spp/download](http://hp.com/go/spp/download) or from the SPP release archive page.
- Supplement release notes can be found on the SPP information library: [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation) or on the SPP download site: [hp.com/go/spp/download](http://hp.com/go/spp/download).

## HP SPP OS support

### 1. What operating systems are supported by the SPP?

The SPP supports various versions of Microsoft Windows, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, and VMware. The SPP doesn't support any Linux distributions other than Red Hat or SUSE. Please review support in the SPP release notes located in the SPP information library: [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation). For more information on HP operating systems and virtualization software support for HP ProLiant servers, please visit the OS support site: [hp.com/go/ossupport](http://hp.com/go/ossupport).

### 2. Do all servers support all of the operating systems supported by the SPP?

The support duration for the SPP and some operating systems may not always align. Each SPP's release notes explain which OS versions are supported within a specific SPP. Please go to each OS website to determine which versions are supported. To determine if your server is supported by an operating system included in the SPP, please do one of the following:

- Review the OS server support matrix for your specific OS found on the OS support site: [hp.com/go/ossupport](http://hp.com/go/ossupport)
- Review the QuickSpecs of your HP ProLiant server to determine which operating systems are supported

### 3. Does the support period for each specific operating system match the support period of the SPP?

The support periods for the SPP and some operating systems may not always align. Each SPP's Release Notes explain which OS versions are supported within a specific SPP. Please go to each OS website to determine which versions are supported.

#### **4. What VMware OS support is offered by the SPP?**

The SPP offers offline VMware firmware OS support for servers running recent VMware OS, the server support guide or SPP Release Notes can provide which VMware versions are supported. (Offline support requires that the server be taken offline and booted to the SPP to update the firmware.) Online firmware VMware OS support is being added to the SPP in a series of phased releases. Please check the SPP contents reports and release notes at [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation) to get an exact list of online VMware firmware smart components available with your SPP release.

The Web-based enterprise management (WBEM) provider from the HP VMware custom image is required for VMware ESXi and vSphere deployments. There are no plans to provide online firmware support for servers earlier than ProLiant G7. VMware drivers are not included in the SPP and are available in the HP custom image. For more information about using the SPP in a VMware environment, please review the white paper, *Tech Brief for using the SPP and the SDR in VMware environments* found in the SPP information library at [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation).

#### **5. Does the SPP support Windows Server 2003?**

SPP does not support Windows Server 2003. Microsoft originally sent out discontinuation notices on December 31, 2009, and then extended its support to July 13, 2010, which was well before the SPP timeframe. Windows Server 2003 has been on extended support from Microsoft since this time. Details on Microsoft's discontinuation efforts for Windows Server 2003 can be found at the following Microsoft website: [microsoft.com/whdc/whgl/resources/news/whglnews\\_020210.htm](http://microsoft.com/whdc/whgl/resources/news/whglnews_020210.htm).

The last release of HP ProLiant system software with support for Windows Server 2003 drivers was in ProLiant Support Pack (PSP) 8.70. Firmware for Windows Server 2003-based ProLiant servers was included in Smart Update Firmware DVD 9.30. Windows Server 2003 has never been supported in the SPP. Therefore, for customers not able to move from Windows 2003 to later Windows releases, HP recommends that they standardize on PSP 8.70 and Smart Update Firmware DVD 9.30, as certain elements must freeze in place when an OS transitions from Microsoft Mainstream Support to Extended Support to avoid discrepancies between drivers and future firmware updates. This statement strongly implies that certain critical firmware updates should not be applied.

#### **6. Will HP Service deny support if I stay on PSP 8.70 and Smart Update Firmware DVD 9.30 in order to continue using Windows Server 2003?**

No, you will not be denied service and support from HP. However, Windows Server 2003 is in the last stages of its extended support phase from Microsoft, which ends in 2015. After that, Microsoft will transition its support to "online only." At this time, support calls for Windows Server 2003 are chargeable by Microsoft. If you must continue to use Windows Server 2003, you are advised to stay on the last supported combination of released components that supported it, which was PSP 8.70 and Smart Update Firmware DVD 9.30.

#### **7. Does SPP version 2013.09.0 and later support SLES 10?**

No, the last release for SLES 10 was in SPP version 2013.02.0. Support for SLES 10 is still available in various locations, such as in the Linux SDR and previous SPP versions, which are located in the SPP downloads archive.

## HP SPP hardware support

### 1. What servers does the SPP support?

Please review the appropriate SPP Server Support Guide located in the SPP information library at [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation) to view the list of supported servers for each SPP release.

### 2. Does the SPP support workstation blades?

Yes, workstation blades are supported by the SPP.

### 3. Does SPP support HP ProLiant 100 Series servers?

The SPP includes support for the HP ProLiant ML110 G7, DL120 G7, and all HP ProLiant 100 Series Gen8 and later servers.

### 4. Does SPP support Moonshot?

No, please go to [hp.com/go/moonshot](http://hp.com/go/moonshot) and [hp.com/go/moonshot/download](http://hp.com/go/moonshot/download) for more information. Moonshot components are available via the Moonshot Component Pack (MCP).

### 5. Will new HP ProLiant server releases be supported by the SPP at launch?

Most new HP ProLiant servers ship with most recent firmware and are supported by the SPP. (Moonshot and some ProLiant SL servers are not supported by the SPP.) Concerning SPP availability, SPPs typically release with major server releases, but not every server release will have an associated SPP.

## HP SPP compatibility with other HP products

### 1. Are Microsoft System Center integrations supported?

Yes, HP Insight Control for Microsoft System Center provides a plug-in called the HP ProLiant Updates Catalog that adds SPP functionality to the System Center environment. This catalog supports System Center Configuration Manager (SCCM) 2007 and 2012, as well as System Center Virtual Machine Manager (SCVMM) 2012 for HP ProLiant servers running Windows. Note that only HP ProLiant server software and firmware may be updated using SCCM or SCVMM. Customers should use the SPP for non-Windows OS, BladeSystem OA firmware, and Virtual Connect firmware updates in a System Center environment.

### 2. Can the SPP be used by other products such as HP System Insight Manager (HP SIM), HP CloudSystem Matrix, HP Insight Control, etc.?

Yes, the SPP functions no differently than the way the former PSPs and Smart Update Firmware DVD did in those environments. HP SUM is the underlying deployment and update mechanism for HP ProLiant and BladeSystem firmware, drivers, and utilities provided by the SPP. Applications, such as HP SIM, HP CloudSystem Matrix, and HP Insight Control, run on top and make use of it. Additionally, the SPP can be imported by Version Control Repository Manager (VCRM). VCRM can use either VCA or HP SUM to deploy the SPP.

### 3. Do HP SUM and the SPP interoperate with the HP Scripting Toolkit (STK)?

Yes, both HP SUM and the SPP are compatible and work with the HP Scripting Toolkit for Windows and Linux, which can be found at the website, [hp.com/go/ProLiant/STK](http://hp.com/go/ProLiant/STK).

#### **4. Do the HP Version Control Repository Manager (VCRM)/Version Control Agents (VCA) support the SPP?**

Yes, VCRM and VCA support the SPP just as they supported the PSPs. Please note that the VCA is no longer included in the SPP as of September 2013, starting with version 2013.09.0.

#### **5. Can the SPP be used as a firmware definition for an HP CloudSystem Matrix solution?**

Yes, SPPs can be used as a firmware definition for HP CloudSystem Matrix (CSM). To determine which SPP versions are supported by each CSM release, please go to the CSM compatibility matrix at: [hp.com/go/matrixcompatibility](http://hp.com/go/matrixcompatibility).

## **HP SPP support and quality assurance**

### **1. What is the support policy for SPP?**

Your environment is supported whether you choose to leverage the Service Pack for ProLiant to manage and maintain firmware and driver versions, or choose to define, test and maintain a custom baseline. You are supported on any HP SPP version within its documented support window and do not need to update from a supported version of the HP SPP until its support window expires. Please refer to the SPP Support Policy Statement found at [hp.com/go/spp](http://hp.com/go/spp) to learn more.

### **2. Are customers required to install the latest SPP?**

No, customers may stay on a given SPP release during its support window. The typical support window is one year from when an SPP is originally released. You may add Hot Fixes and/or SPP Supplements as needed to address critical issues that apply to your environment. The SPP is available for customers to download and use on products which are under an active warranty or an HP Support Agreement. HP recommends that you update the software and firmware components in your environment at least once per year. See the SPP support policy at either [hp.com/go/spp](http://hp.com/go/spp) or [hp.com/go/SmartUpdate](http://hp.com/go/SmartUpdate) for additional information.

### **3. When my server goes end of life (EOL), may I stay on its last supported release rather than moving to newer SPPs?**

Yes, you may remain on the last supported release for servers that are EOL. By this time in a server's lifecycle, there should be few, if any, driver and firmware changes.

### **4. Will the “support period” window be extended so that customers have longer than one year on a specific release?**

In some cases, the support period may appear to be extended for a month beyond the official support date because the SPP release was delayed. Please check the appropriate SPP release notes on the SPP information library, [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation), to determine the end-of-support date for a specific SPP version. At this time, no plans exist to extend support beyond a full year from the time an SPP is released.

## 5. Can I skip SPP versions when updating my environment?

Yes, the SPP is available for customers to download and use on products which are under an active warranty or an HP Support Agreement. You may skip SPP versions when updating your environment. You should review the appropriate SPP release notes on the SPP information library, [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation), to determine which versions you can directly update *from* and *to*. Occasionally you will be required to go to a specific SPP version or component version prior to going to the desired SPP version. When this occurs, there will be instructions in the SPP release notes.

## 6. If I customize my SPP, will I still be supported by HP?

Yes, your environment is supported whether you choose to leverage the Service Pack for ProLiant to manage and maintain firmware and driver versions, or choose to define, test, and maintain a custom baseline. You are supported on any SPP version within its documented support window and need not update from a supported version of the SPP until its support window expires. Please see the SPP websites at these locations to view the most up-to-date SPP support policy explaining support for customizations and baselines: [hp.com/go/spp](http://hp.com/go/spp) and [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation).

## HP SPP usage

### 1. Who can download and use the SPP?

The SPP is available for customers to download and use on products which are under an active warranty or an HP Support Agreement

### 2. Can the SPP be installed with only a single reboot?

Yes, if you update software and firmware in a single HP SUM session, it is likely that you will only have to have a single reboot (although it cannot be guaranteed, due to the component interdependencies and availabilities). The reboot can be performed immediately after the update or can be postponed to a more convenient point in time.

### 3. When using the SPP, which is updated first, drivers or firmware?

You can update firmware and software in one process or firmware and software separately. When deploying firmware and software in a single session, HP SUM will determine the best deployment order based on the interdependencies of the components. If you want to update the firmware and software separately, please refer to the *HP Service Pack for ProLiant Quick Start Guide* and the HP Smart Update Best Practices guides available on the SPP information library, [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation).

### 4. Is there a tool to identify gaps between currently installed firmware and most recent firmware?

You can use HP SUM to identify gaps by putting the latest firmware in a repository, having HP SUM use that repository, selecting the target you want to check, and then running HP SUM with the **/report** and **/firmware\_report** command line parameters.



## 5. Can I put the SPP on a bootable USB key?

Yes, you can use the HP USB Key Utility found on the SPP to move the SPP to a bootable USB key. For more information refer to the utility's online help or *HP Service Pack for ProLiant Quick Start Guide* available on the SPP information library, [hp.com/go/spp/documentation](http://hp.com/go/spp/documentation).

## 6. Can the contents of the SPP be deployed to remote sites via scripting?

Yes, you can script the deployment of the firmware and software components using the HP SUM command line interface and input file functionality or the HP Scripting Toolkit for Windows and Linux: [hp.com/go/ProLiant/STK](http://hp.com/go/ProLiant/STK).

## 7. Is there a recommended way, other than buying an ISO editing tool, to add packages to the bootable SPP ISO for offline updates?

Yes. Use the custom baseline feature in HP SUM.

# HP SPP customizations and BladeSystem enclosures

## 1. Can the SPP be customized?

Yes, the SPP can be customized and maintained as a custom baseline. Starting with HP SUM 5.3.0, there is custom baseline functionality available. This capability was first delivered with SPP 2012.10.0. Examples of using SPP customization are:

- Deploying an SPP supplement to an associated SPP
- Applying Hot Fixes to an associated SPP
- Supporting multiple SPP releases within a BladeSystem enclosure
- Mixing components from multiple SPPs
- Applying firmware and software for options that are not included in an SPP
- Adding SPP-supported components that have not yet been tested at the SPP solution level
- Using a supported baseline after the support period expires

## 2. Can multiple SPPs be supported within a BladeSystem enclosure?

Yes, an enclosure may contain servers running different SPPs since servers are deployed into the enclosure at different times. Customers do not have to back-level or up-level to a single SPP version. Running different SPPs is encouraged, as it allows an enclosure infrastructure to be updated in separate, smaller increments rather than all at once. Updating smaller SPP infrastructures becomes much more manageable as the separate infrastructure portions can be not only updated separately, but downtime can be scheduled separately for greater system availability.

## 3. Can HP BladeSystem enclosures support mixed environments of both HP ProLiant and HP Integrity server blades?

Yes, mixed environments of both ProLiant and Integrity servers within HP BladeSystem enclosures are supported by HP. The update mechanisms are slightly different, as ProLiant servers are updated with the SPP and Integrity servers are updated with Integrity firmware update bundles. The underlying deployment engine for both the SPP and the Integrity bundles is HP SUM, so the update experience is similar with the exception that Integrity servers must install their HP-UX OS drivers separately from the firmware included in the bundle.

Additionally, when running mixed Integrity and ProLiant environments within an enclosure, it is important that you read all enclosure-related firmware release notes, so that enclosure infrastructure such as OA and VC firmware are updated to versions supported by both HP Integrity and HP ProLiant servers.

## 4. How can I update the firmware for my HP Virtual Connect modules?

The SPP, using HP SUM, updates not only the blade servers, but the BladeSystem infrastructure, including enclosures, Onboard Administrator, and Virtual Connect. HP SUM version 5.x and later will do the Virtual Connect update (with minimal downtime), as long as the modules meet the following criteria:

- Have passed health check
- Are in a redundant configuration
- Are part of a Virtual Connect (VC) domain

To update the Virtual Connect modules separately, you can use Virtual Connect Support Utility (VCSU) as the update mechanism to avoid losing Ethernet and/or SAN connectivity. In order to achieve that, the VC profiles must be configured with redundant uplinks and with proper stacking links such that an alternate path to the server is always available if one of the Virtual Connect modules is rebooted.

## 5. Does SPP include support for Fibre Channel switch firmware updates?

No, however, you can download separate Fibre Channel switch components and use HP SUM to deploy the components.

## Miscellaneous

### 1. Will individual software and firmware components still be available on the public hp.com Web pages?

The BIOS System ROM and Complex Programmable Logic Device (CPLD) firmware require validation and are available for customers to download and use on products which are under an active warranty or an HP Support Agreement. All other firmware such as iLO, controller components either embedded or external to the system board, drivers or any other download content is in the Drivers, Software & Firmware section of HPSC. Terms and conditions of the [License Agreement](#) apply for these and the Safety and security related updates for all firmware which will remain available without validation. The downloads are available at [hp.com/us/en/support-drivers.html](http://hp.com/us/en/support-drivers.html).

### 2. How do I determine what SPP version has been installed on my server?

A specific command to determine SPP version does not exist. With HP SUM, users can be selective about the components that they install on servers. HP SUM writes what it installs to the Active Health System (AHS) log. With that feature, customers can check to see what was installed on the system and then compare the component versions with the SPP contents report to determine SPP version.

Another way to determine the installed SPP version when running in a Windows environment is to use the HP inventory tool that is a component of HP Insight Control for Microsoft System Center. The version of the SPP that was used by the HP ProLiant updates catalog for ProLiant driver and firmware updates is displayed. The updates must have been performed using Microsoft System Center Configuration Manager or System Center Virtual Machine Manager and the HP catalog.

### 3. Is there going to be a compatibility table for SPP like there was for the HP BladeSystem release sets?

No, developing an SPP compatibility table is not planned. The SPP contents report found on the SPP information library ([hp.com/go/spp/documentation](http://hp.com/go/spp/documentation)) replaced the BladeSystem release set compatibility table. Each SPP contents report lists all of the components and their versions that are in that SPP. All the SPP components are tested together as a complete solution and thus are supported as such.

To compare contents of different SPP releases, simply search the contents report for each version of SPP for the specific component and compare them.

## Helpful links and documentation

Use the following list of useful links to find additional information on Smart Update and related products:

Smart Update:

1. HP Smart Update: [hp.com/go/SmartUpdate](http://hp.com/go/SmartUpdate)
2. HP SPP: [hp.com/go/spp](http://hp.com/go/spp)
3. HP SUM: [hp.com/go/hpsum](http://hp.com/go/hpsum)
4. [HP ProLiant Server Firmware Access Update FAQ](#)
5. [More Information on Access to HP Support Materials](#)

Related products:

1. Software Support: [hp.com/go/ossupport](http://hp.com/go/ossupport)
2. HP Scripting Toolkit (STK): [hp.com/go/ProLiant/STK](http://hp.com/go/ProLiant/STK)
3. Linux SDR: [hp.com/go/sdr](http://hp.com/go/sdr)
4. Intelligent Provisioning: [hp.com/go/intelligentprovisioning](http://hp.com/go/intelligentprovisioning)
5. VMware custom images: [hp.com/go/esxideownload](http://hp.com/go/esxideownload)
6. VMware gateway: [vibsdepot.hp.com](http://vibsdepot.hp.com)
7. HP Insight Control for Microsoft System Center: [hp.com/go/icsc](http://hp.com/go/icsc)

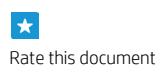
## Join the conversation

Join in and get up-to-date coverage on HP Smart Update products by visiting these blogs:

- [HP ProLiant Servers \(ML,DL,SL\) Forum](#)
- [ITRC ProLiant Deployment & Provisioning Forum](#)
- [Reality Check: Server Insights Blog](#)
- [Eye on Blades: Trends in Infrastructure Blog](#)

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