



Hewlett Packard
Enterprise

HPE B-series Fabric OS v9.0.0a

Release Notes

Abstract

This document contains supplemental information for the HPE B-series FOS v9.0.0a firmware.

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HPE B-series Fabric OS 9.0.0a Release Notes

Description

These HPE B-series Release Notes only contain HPE specific information related to this release. See the Brocade Release Notes for general information and details on fixes as well as other important information pertinent to this release.

Update recommendation

HPE strongly recommends that you upgrade to this version as soon as possible to take advantage of the latest fixes and features.

Important Information

- Migration to FOS v9.0.x requires acceptance of the Brocade/Broadcom End User License Agreement (EULA).
- Upgrades from all FOS versions prior to v8.2.1d and 8.2.2a will be blocked by Webtools and is not supported via automated scripts.
- When using HPE SANnav to upgrade FOS to v9.0.0a SANnav 2.1.0 or later is required.
- When using HPE Brocade Network Advisor to upgrade FOS on supported Gen 6 switches to v9.0.0a Network Advisor version 14.4.5 is required.
- FOS v9.0.0x switches do not support direct E_Port connectivity to switches running FOS 7.4.2x. The 7.4.2x switch must connect using FCR or Access Gateway.
- The Traffic Isolation Zoning and Frame Redirection features have been deprecated in this release.
- When downgrading the Brocade 32Gb FC SAN Switch Module for HPE Synergy to FOS v8.2.x use FOS v8.2.0_gft1.
- FOS v9.0.x is not FIPS compliant.
- The CLI commands for managing switch licensing have been changed in this release. Refer to the Command Reference and FOS Software Licensing User Guide for more information.
- Refer to the Brocade FOS v9.0.0a Release Notes and user documentation for additional information on new and enhanced functionality added in this release including but not limited to:
 - New Web Tools UI that does not use Java
 - Generic USB support
 - Incremental Firmware Download
 - Fabric Congestion Notification
 - Fabric Zone Locking to Serialize Zoning Changes Fabric-wide
 - Clean Address Bit
 - TLS v1.3 Support
 - New CLI Licensing Commands for Viewing and Managing Licenses

Security Vulnerability Fixes

For the latest Common Vulnerabilities and Exposures (CVEs) security vulnerabilities disclosures, please visit The HPE Product Security Vulnerability Alerts page at: <https://www.hpe.com/us/en/services/security-vulnerability.html> and the Brocade Security Advisories web page at <https://www.broadcom.com/support/fibre-channel-networking/security-advisories>.

Firmware Download

An active warranty or support agreement must be linked to your HPE Passport to access B-series switch firmware.

To access Fabric OS 9.0.0a firmware, Release Notes and MIB files:

- Go to <https://support.hpe.com>.
- Enter your B-series switch or FOS version (i.e. SN6600B or 9.0.0a) into the search box, and you will be presented with a list of models/version. Click on the link for your switch model or FOS version.
- Click **Drivers & Software**, to narrow the search criteria.
- Select **Firmware (Entitlement required) Version: v9.0.0a**
- Click **Obtain software**. Once entitled you will be redirected to a Broadcom/Brocade web page to complete the download.

To read the HPE Firmware Release Notes, click on the Release Notes tab

B-series User Documentation

HPE B-series documentation including the quick start guides and HPE B-series to Brocade model cross reference guide are available on the HPE Support Center website: <https://support.hpe.com>.

Brocade branded user and reference guides for FOS, SANnav and switch hardware are available on the Broadcom external website:

- Go to <https://www.broadcom.com/products/fibre-channel-networking/>
- Select your **Product**
- Once you reach the Product Page, select **Documentation**

Note: For legacy Products not listed, enter the requested FOS version in the Search bar

Universal Temporary License

Brocade supports Universal Temporary Licenses (UTLs, also known as "Universal Time-based Licenses") for select features. These licenses allow optional features to be enabled on Brocade products for a limited period of time for evaluation or temporary-use purposes. Customers that have ordered a permanent license for a feature may install and use a UTL prior to receiving the permanent license.

Universal Temporary Licenses differ from other temporary or permanent licenses in that they do not need to be uniquely generated for each switch, thus making them universally applicable. The same UTL for a given feature can be installed on multiple switches. Please note that once a UTL for a feature has been installed on a switch, it can never be installed again on that switch. Once the Universal Temporary License expires on a switch, a general temporary or permanent license must be installed to continue using the feature.

Notes on the Use of Universal Temporary Licenses

- UTLs have a "shelf life" expiration date after which they can no longer be installed on any product.
- UTLs cannot be removed, but the features they enable can be disabled.
- All feature settings configured while using a UTL are retained when a permanent license is later installed.
- The licenseShow command will display a list of all installed licenses on a switch and will also indicate the expiration date of any temporary licenses installed.
- UTLs are installed on a switch in the same manner as other licenses. Refer to the Fabric OS Administrator's Guide for details.
- Use of UTLs to evaluate features is intended for non-production environment use only and is not covered under the hardware platform's support agreement.

UTLs are valid for a period of 60 days after installation on a given switch and are available on the HPE My Software Center: <https://myenterpriselicense.hpe.com>

Supported FOS and Product Models

For the latest FOS and product support information, see the Single Point of Connectivity Knowledge (SPOCK) on the HPE website: <https://www.hpe.com/storage/spock>.

You must sign up for an HPE Passport to access this website.

Standards Compliance

This software conforms to the FC standards and accepted engineering practices and procedures. In certain cases, HPE might add proprietary supplemental functions to those specified in the standards. For a list of standards conformance, see the HPE website: <https://www.hpe.com>.

Fibre Channel and Fibre Channel Routing scalability

For the latest information about Fibre Channel and Fibre Channel Routing (FCR) scalability support, see the HPE SAN Design Reference Guide.

Access Gateway Device-based Mapping in ESX Environments

Users who want to utilize Access Gateway based mapping feature in ESX environments should refer to the Brocade Tech Note: "Using Brocade Access Gateway Device-Based Mapping in VMware ESX Server Environments" for best implementation practices.

Websites

General websites

Hewlett Packard Enterprise Information Library

<https://www.hpe.com/info/EIL>

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix

<https://www.hpe.com/storage/spock>

Storage white papers and analyst reports

<https://www.hpe.com/storage/whitepapers>

For additional websites, see **Support and other resources**.

Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
<https://www.hpe.com/info/assistance>
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
<https://www.hpe.com/support/hpesc>

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:

Hewlett Packard Enterprise Support Center

<https://support.hpe.com>


Hewlett Packard Enterprise Support Center: Software downloads

<https://www.hpe.com/support/>

My HPE Software Center

<https://myenterpriselicence.hpe.com/cwp-ui/free-software/>

- To subscribe to eNewsletters and alerts:
<https://www.hpe.com/support/e-updates>
- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center **More Information on Access to Support Materials** page:
<https://www.hpe.com/support/AccessToSupportMaterials>

 **IMPORTANT:** Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

<https://www.hpe.com/support/selfrepair>

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information

HPE Get Connected

<https://www.hpe.com/services/getconnected>

HPE Proactive Care services

<https://www.hpe.com/services/proactivecare>

HPE Datacenter Care services

<https://www.hpe.com/services/datacentercare>

HPE Proactive Care service: Supported products list

<https://www.hpe.com/services/proactivecaresupportedproducts>

HPE Proactive Care advanced service: Supported products list

<https://www.hpe.com/services/proactivecareadvancedsupportedproducts>

Proactive Care customer information

Proactive Care central

<https://www.hpe.com/services/proactivecarecentral>

Proactive Care service activation

<https://www.hpe.com/services/proactivecarecentralgetstarted>

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options

<https://www.hpe.com/support/ProLiantServers-Warranties>

HPE Enterprise and Cloudline Servers

<https://www.hpe.com/support/EnterpriseServers-Warranties>

HPE Storage Products

<https://www.hpe.com/support/Storage-Warranties>

HPE Networking Products

<https://www.hpe.com/support/Networking-Warranties>

Regulatory information

To view the regulatory information for your product, view the *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at the Hewlett Packard Enterprise Support Center:

<https://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

<https://www.hpe.com/info/reach>

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

<https://www.hpe.com/info/ecodata>

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

<https://www.hpe.com/info/environment>