



Fabric OS v10.0.1

Fabric OS v10.0.1 Release Notes Digest

Version 1

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Chapter 1: Preface

1.1 Contacting Technical Support for your Brocade® Product

If you purchased Brocade product support directly from Broadcom, use one of the following methods to contact the Technical Assistance Center 24x7. For product support information and the latest information on contacting the Technical Assistance Center, go to www.broadcom.com/support/fibre-channel-networking/contact-brocade-support.

Online	Telephone
For nonurgent issues, the preferred method is to log on to the Support portal at support.broadcom.com. (You must initially register to gain access to the Support portal.) Once registered, log on and then select Brocade Products. You can now navigate to the following sites: ▪ Case Management ▪ Software Downloads ▪ Licensing ▪ SAN Reports ▪ Brocade Support Link ▪ Training & Education	For Severity 1 (critical) issues, call Brocade Fibre Channel Networking Global Support at one of the phone numbers listed at www.broadcom.com/support/fibre-channel-networking/contact-brocade-support.

If you purchased Brocade product support from a Broadcom OEM/solution provider, contact your OEM/solution provider for all your product support needs.

- OEM/solution providers are trained and certified by Broadcom to support Brocade products.
- Broadcom provides backline support for issues that cannot be resolved by the OEM/solution provider.
- Brocade Supplemental Support augments your existing OEM support contract, providing direct access to Brocade expertise. For more information on this option, contact Broadcom or your OEM.

For questions regarding service levels and response times, contact your OEM/solution provider.

To expedite your call, have the following information immediately available:

General Information:

- Technical support contract number, if applicable.
- Switch model.
- Switch operating system version.
- Error numbers and messages received.
- `supportSave` command output and associated files.

For dual-CP platforms the `supportSave` command gathers information from both CPs and any AP blades installed in the chassis.

- Detailed description of the problem, including the switch or fabric behavior immediately following the problem and any specific questions.
- Description of any troubleshooting steps already performed and the results.
- Serial console and telnet session logs.
- Syslog message logs.

- Switch Serial Number.

The switch serial number is provided on the serial number label, examples of which follow:



The serial number label is located as follows:

- Brocade G820, G730, G720, G710 – On the switch ID pull-out tab located on the bottom of the port side of the switch.
- Brocade 7850 – On the pull-out tab on the front left side of the chassis underneath the serial console and Ethernet connection and on the bottom of the switch as well as on the left side underneath (looking from the front).
- Brocade X8-8, X8-4 – Lower portion of the chassis on the non-port side beneath the fan assemblies.
- Brocade X7-8, X7-4 – Lower portion of the chassis on the non-port side beneath the fan assemblies.

- World Wide Name (WWN).

When the Virtual Fabric feature is enabled on a switch, each logical switch has a unique switch WWN. Use the `wwn` command to display the switch WWN.

If you cannot use the `wwn` command because the switch is inoperable, you can get the primary WWN from the same place as the serial number.

- License Identifier (License ID).

There is only one license ID associated with a physical switch or director/backbone chassis. This license ID is required as part of the ordering process for new FOS licenses.

Use the `license --show -lid` command to display the license ID.

1.2 Related Documentation

White papers and data sheets are available at www.broadcom.com. Product documentation for all supported releases is available on the support portal to registered users. Registered users can also find release notes on the support portal.

Chapter 2: Locating Product Manuals and Release Notes

The following sections outline how to locate and download Brocade product manuals and release notes from Broadcom and on the support portal. Although the illustrations show Fibre Channel and Fabric OS (FOS), they work for all Brocade products and operating systems.

2.1 Locating Product Manuals and Release Notes

2.1.1 Locating Product Manuals on Broadcom

Complete the following steps to locate your product manuals on Broadcom.com.

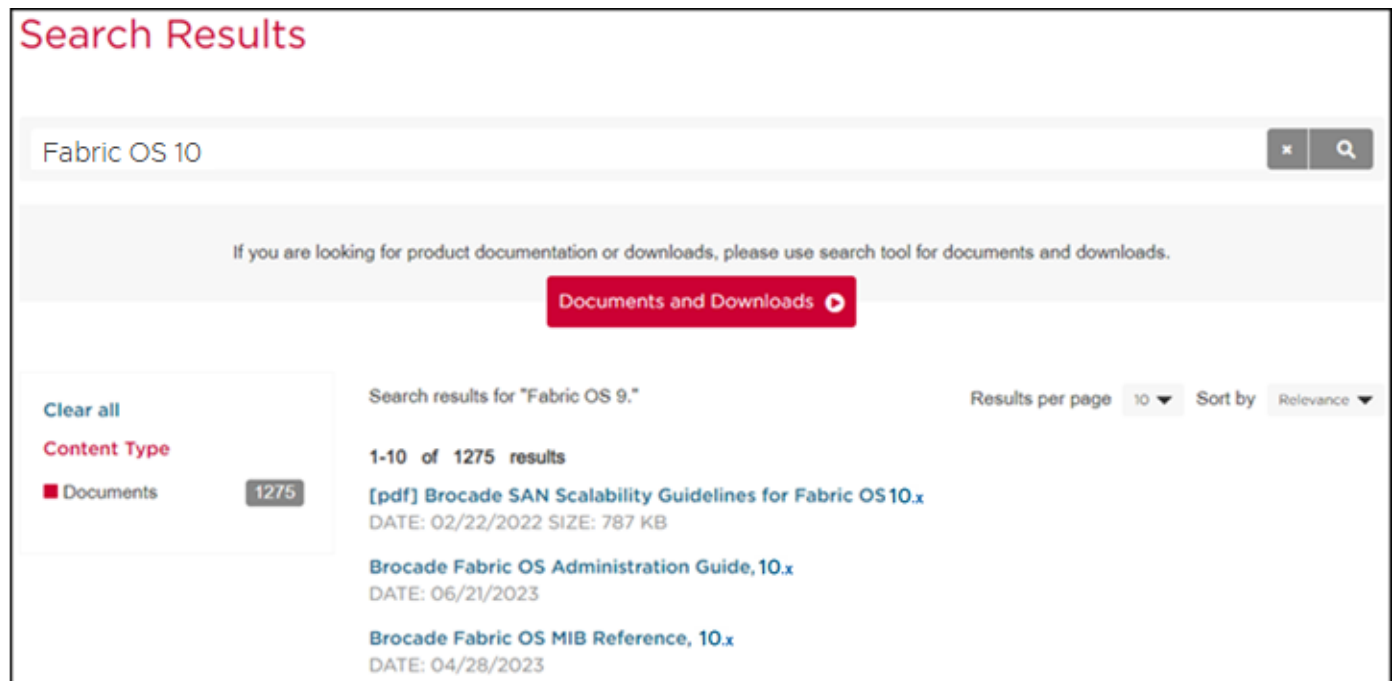
1. Go to www.broadcom.com.
2. Enter the product name or the software version number in the **Search** box.

For example, the following search is for software and documentation files for software version 10.



3. Select the **Documents** check box to list only the documents.

The list of documents available for the release displays.



2.1.2 Locating Product Manuals and Release Notes on the Support Portal

Complete the following steps to locate your product manuals on the support portal.

1. Go to support.broadcom.com, click **Login**, and enter your username and password.
If you do not have an account, click **Register** to set up your account.
2. Select **Brocade Storage Networking** in the support portal.

2.2 Document Feedback

Quality is our first concern, and we have made every effort to ensure the accuracy and completeness of this document. If you find an error, omission or think that a topic needs further development, we want to hear from you. You can provide feedback by sending an email to documentation.PDL@broadcom.com. Provide the publication title, publication number, and as much detail as possible, including the topic heading and page number, as well as your suggestions for improvement.

Chapter 3: Overview

The Fabric OS v10.0.1 is a maintenance release based on FOS v10.0.0a.

This release supports all Gen 8 and Gen 7 hardware platforms.

Fabric OS v10.0.1 includes all software enhancements and defect fixes for FOS v10.0.0, 10.0.0a, and 10.0.0a1.

Fabric OS v10.0.1 is the initial release supporting 128G LWL and 128G ELWL optics.

Chapter 4: What's New in FOS v10.0.1

The Fabric OS v10.0.1 release includes new hardware support, software enhancements and fixes.

4.1 Hardware

Fabric OS v10.0.1 includes support for the following 128G LWL and 128G ELWL optics:

- 128G LWL SFP+ PN: 57-1000516-01
- 128G ELWL SFP+ PN: 57-1000517-01

4.2 Software

The following areas include new, enhanced or modified software features with this release:

- SAN Fabric Intelligence
- System Security
- MAPS
- USF
- Miscellaneous
- REST

4.2.1 SAN Fabric Intelligence (SAN FI)

In FOS v10.0.1 the following scalability for SAN FI is supported:

- vCenter registrations per fabric: 4
- ESXi host clusters per fabric: 64
- Max number of VMs per ESXi host: 256
- Max number of VMs per fabric: 32K
- Max number of VMs per physical Switch: 8K
- Max number of LUNs per fabric: 8K

In FOS v10.0.1 the following scalability for SAN FI is supported per switch:

- MAPs violation events: 16K
- Congestion events: 20K
- Switch ports: 3.6K

In FOS v10.0.1 SAN FI Configuration of vCenter is done with the command `sanfi --config`.

4.2.2 System Security Enhancements

This section describes System Security enhancements and changes.

4.2.2.1 SFTP Support for Import and Export of SSH keys

SFTP support is added to SCP when importing and exporting SSH keys. The command `sshutil` is enhanced with a new prompt requesting selection of the transfer protocol SFTP or SCP.

4.2.2.2 Certificate Validity in Days

The command `SecCertMgt` is enhanced to support validity to be specified in days. Supported values for `-days` are 1-730 days. Accordingly, the supported values for `-years` is now 1-2 years.

NOTE Specifying validity in years is deprecated and will be accepted with the following deprecation warning:
The `-years` sub-option is deprecated and will be obsoleted in a future FOS version. In this FOS version, the `-years` sub-option functionality is unchanged. Please plan accordingly.

4.2.2.3 Unified IP Filter

NOTE In FOS v10.0.1 the Unified IP Filter function is enhanced is to support logging of port violation of explicitly blocked ports (Deny) per the active Unified IP Filter policy.

NOTE To avoid alert flooding fixed rate limits are in place for port violation logging.

4.2.2.4 HTTPS RSA Key Size

In FOS v10.0.1 when using CLI to generate self-signed HTTPS certificates without any options specified, the certificate will be generated with RSA key size of 4096 and hash of sha512.

NOTE The REST interface does not allow explicit specification of either 4k or 8k RSA key size.

4.2.2.5 New PQC Algorithms in FOS v10.x

The following PQC algorithms are available in FOS v10.x:

- ML-KEM (mlkem512, mlkem768, and mlkem1024)
- ML-DSA (mldsa44, mldsa65, and mldsa87)
- LMS (used for FOS firmware signatures)

4.2.2.5.1 Usage of PQC Algorithms in FOS v10.x

The following lists the usage of available PQC algorithms in FOS v10.x:

Supported PQC algorithms for SSH keys:

- mldsa44
- mldsa65
- mldsa87

- falcon512
- falcon1024

NOTE For ML-DSA SSH Keys, the following NIST-approved ssh-mldsa-* formats are supported:

ssh-mldsa-44
ssh-mldsa-65
ssh-mldsa-87

Supported PQC algorithms for open SSH KEX:

- mlkem512-sha256
- mlkem768-sha256
- mlkem1024-sha384
- mlkem768nistp256-sha256
- mlkem1024nistp384-sha384
- mlkem768x25519-sha256
- kyber-512-sha256
- kyber-768-sha384
- kyber-1024-sha512
- sntrup761-sha512
- sntrup761x25519-sha512@openssh.com
- bike-l1-sha512
- bike-l3-sha512
- bike-l5-sha512
- x25519-ml-kem-512-sha256@openquantumsafe.org
- x25519-kyber-512r3-sha256-d00@amazon.com
- x25519-bike-l1r4-sha512@openquantumsafe.org
- ecdh-nistp256-ml-kem-512-sha256@openquantumsafe.org
- ecdh-nistp256-kyber-512r3-sha256-d00@openquantumsafe.org
- ecdh-nistp384-kyber-768r3-sha384-d00@openquantumsafe.org
- ecdh-nistp521-kyber-1024r3-sha512-d00@openquantumsafe.org
- ecdh-nistp256-bike-l1r4-sha512@openquantumsafe.org
- ecdh-nistp384-bike-l3r4-sha512@openquantumsafe.org
- ecdh-nistp521-bike-l5r4-sha512@openquantumsafe.org
- classic-mceliece-348864-sha256
- classic-mceliece-348864f-sha256
- classic-mceliece-460896-sha512
- classic-mceliece-460896f-sha512
- classic-mceliece-6688128-sha512

- classic-mceliece-6688128f-sha512
- classic-mceliece-6960119-sha512
- classic-mceliece-6960119f-sha512
- classic-mceliece-8192128-sha512
- classic-mceliece-8192128f-sha512
- x25519-classic-mceliece-348864r4-sha256@openquantumsafe.org
- x25519-classic-mceliece-348864fr4-sha256@openquantumsafe.org
- ecdh-nistp256-classic-mceliece-348864r4-sha256@openquantumsafe.org
- ecdh-nistp256-classic-mceliece-348864fr4-sha256@openquantumsafe.org
- ecdh-nistp384-classic-mceliece-460896r4-sha512@openquantumsafe.org
- ecdh-nistp384-classic-mceliece-460896fr4-sha512@openquantumsafe.org
- ecdh-nistp521-classic-mceliece-6688128r4-sha512@openquantumsafe.org
- ecdh-nistp521-classic-mceliece-6688128fr4-sha512@openquantumsafe.org
- ecdh-nistp521-classic-mceliece-6960119r4-sha512@openquantumsafe.org
- ecdh-nistp521-classic-mceliece-6960119fr4-sha512@openquantumsafe.org
- ecdh-nistp521-classic-mceliece-8192128r4-sha512@openquantumsafe.org
- ecdh-nistp521-classic-mceliece-8192128fr4-sha512@openquantumsafe.org

NOTE For pure ML-KEM PQC, the following NIST-approved mlkem* standalone formats are supported for SSH KEX:

- mlkem512-sha256
- mlkem768-sha256
- mlkem1024-sha384

NOTE From an operational perspective, FrodoKEM and PQC variants are configurable but not supported in Fabric OS v10.0.1. In addition, the quantum-safe SSH capabilities in this release were tested against OpenSSH_10.2-2025-12_p1, Open Quantum Safe 2025-12.

Supported PQC algorithms for TLS Sign/Verify:

- mldsa44
- mldsa65
- mldsa87
- falcon512
- falcon1024

Supported PQC algorithms for TLS Key Encapsulation:

- mlkem512
- mlkem768
- mlkem1024
- SecP256r1MLKEM768
- SecP384r1MLKEM1024
- X25519MLKEM768

4.2.2.6 IKE ESP Rekey Statistics

For Extension sessions the IKE ESP rekey statistics are now available on the responder. In previous versions of FOS, the stats were only available on the initiator. This enhancement is for CLI only as these stats are not available via REST.

The command `portshow ipsec-policy --ike [-detail]` is modified to include the ESP rekey stats for the responder connections.

4.2.3 MAPS

This section describes MAPS changes in FOS v10.0.1

4.2.3.1 MAPS Rule on Rule Scalability

The maximum supported number of MAPS Rule on Rule (RoR) is increased to 100.

4.2.3.2 Monitoring of 100G (4x25G) Connections Across 4 Ports to 100G SFP28 SR (4x25G)

The FOS 10.0.1 release introduces a significant enhancement for IP Storage switches, enabling the utilization of 4x25G SR (Short Reach) SFPs to establish 100G SR4 (Short Reach, 4-lane) connectivity. This feature enables higher port density and greater flexibility in high-speed storage environments. From the user's perspective, these four physical 25G ports are logically grouped into a single, unified 100G port operating in non-breakout mode. This abstraction is crucial for simplified management and monitoring.

MAPS is designed to seamlessly integrate and monitor this non-breakout port configuration. MAPS will identify the SR4 non-breakout mode ports and monitor the port health and performance metrics using the primary port and all four individual SFPs inserted into the physical 25G cages.

4.2.3.3 Deprecation of Clone by Group

The MAPS feature Clone by Group is deprecated in FOS v10.0.1. When executing the command `mapsrule --cloneByGroup` the following message is displayed `WARNING: Clone by group feature is deprecated in 10.0.1 and will be obsolete in the next FOS release.`

4.2.4 Unified Storage Fabric (USF)

This section describes USF enhancements in FOS v10.0.1.

USF is supported on X8-8 and X8-4 with the release of FOS v10.0.1.

4.2.4.1 Jumbo Frame

MTU size on Gen 8 platforms defaults to 9216 and is not configurable.

MTU size on Gen 7 platforms continues to be set to 2088 and is not configurable.

4.2.4.2 Ethernet Pause

Upon time of creation of an IPS logical switch, on Gen 8 the logical switch can be configured to support Ethernet Pause.

Use the command `lscfg --create [ID] -ips -pause`

The configuration for Ethernet Pause cannot be removed from the logical switch after creation.

NOTE Support for Ethernet Pause is mainly for replication environments which already have Ethernet Pause enabled.

4.2.5 Miscellaneous

This section describes miscellaneous enhancements in FOS v10.0.1

4.2.5.1 Deprecation of FOSEXEC

The command `fosexec` is deprecated in FOS v10.0.1 and will be obsoleted in a future release.

4.2.5.2 SNMP MIBS: OID Message Describes How a Port was Disabled

A port can go offline by the user manually disabling it using the commands `portdisable` and `portcfgpersistentdisable` or a port can be disabled by FOS because of a specific reason such as zone conflicts, authentication rejection, compression mismatch etc. A new OID message is provided with the `swPortStateTable` to provide information for how a port was disabled.

The `swPortStateTable` provides details regarding a port's state and any associated reason for why it was disabled through the three objects:

- `swPortAdminState`
- `swPortStateDisableReason`
- `swPortStateUserDisableReason.`

The user needs to compile and load the updated Brocade FAEXT.mib file to the SNMP manager to access the newly introduced table objects.

4.2.5.3 SNMP MIBS: OID for FPIN Statistics

SNMP GET support is provided for Fabric Performance Impact Notification (FPIN) statistics for both send and receive data. The FPIN statistics represent the send and receive counts for FPIN ELS exchanges. These counters indicate the number of FPINs received from the device and the number of FPINs sent by the switch.

To access FPIN transmit (Tx) and receive (Rx) attributes, a new table `swConnUnitFPINStatsTable` has been defined in the FAEXT.mib to expose the corresponding send and receive statistics

The user needs to compile and load the updated Brocade FAEXT.mib file to the SNMP manager to access the newly introduced table objects.

4.2.5.4 Kafka Schemas Include Units

All Kafka schemas are updated to include units for all values defined.

Software License Support

Fabric OS 10.x includes all basic switch and fabric support software, as well as all feature licenses.

4.3 Optionally Licensed Software

Optionally licensed features include:

Brocade Ports on Demand – This license allows customers to instantly scale the fabric by provisioning additional SFP ports via license key upgrade. (Applies to select switch models.)

Brocade Double Density Ports on Demand – This license allows customers to instantly scale the fabric by provisioning additional SFP-DD ports via license key upgrade. (Applies to select switch models.)

On the Brocade X7-8:

On the X7-8, the first ICL POD license enables 4 UltraScale ICL QSFP ports on each core blade of the director, which are QSFP port numbers 0, 1, 8, and 9. The second ICL POD license on the X7-8 enables 8 UltraScale ICL QSFP ports on each core blade of the director, which are QSFP port numbers 0-3 and 8-11. The third ICL POD license on the X7-8 enables 12 UltraScale ICL QSFP ports on each core blade of the director, which are QSFP port numbers 0-5 and 8-13. The fourth ICL POD license on the X7-8 enables all UltraScale ICL QSFP ports on each core blade of the director.

On the Brocade X7-4:

On the X7-4, the first ICL POD license enables 4 UltraScale ICL QSFP ports on each core blade of the director, which are QSFP port numbers 0, 1, 4, and 5. The second ICL POD license on the X7-4 enables all UltraScale ICL QSFP ports on each core blade of the director.

Chapter 5: Hardware Support

5.1 Supported Devices

The following devices are supported in this release:

- Brocade X8-8 Director
- Brocade X8-4 Director
- Brocade X7-8 Director
- Brocade X7-4 Director
- Brocade G820 Switch
- Brocade G730 Switch
- Brocade G720 Switch
- Brocade G710 Switch
- Brocade 7850 Extension Switch

5.2 Supported Blades

5.2.1 X8-8 and X8-4 Blade Support

Fabric OS v10.0.x software is fully qualified and supports the blades for the X8-8 and X8-4 as noted in the following table.

Blades	FOS v10.0.x Support
FC128-48 128G FC Blade	Supported
ICLX8-8 ICL Blade	Supported in X8-8
ICLX8-4 ICL Blade	Supported in X8-4

5.2.2 X7-8 and X7-4 Blade Support

Fabric OS v10.0.x software is fully qualified and supports the blades for the X7-8 and X7-4 as noted in the following table.

Blades	FOS v10.0.x Support
FC64-64 64G FC Blade	Supported
FC64-48 64G FC Blade	Supported
FC32-X7-48 32G X7 FC Blade	Supported
SX6 Gen 6 Extension Blade	Supported. Up to a maximum of four blades of this type.

5.3 Supported Power Supplies

For the list of supported power supplies for Brocade X8 and power supply requirements, refer to the *Brocade X8 Director Technical Specification*.

For the list of supported power supplies for Brocade X7 and power supply requirements, refer to the *Brocade X7 Director Technical Specification*.

5.4 Supported Optics

For a list of supported fibre optic transceivers that are available from Brocade, refer to the latest version of the *Brocade Transceiver Support Matrix* available online at www.broadcom.com.

Chapter 6: Software Upgrades and Downgrades

6.1 Platform Specific Downloads

This release of FOS is available for entitled equipment download in Platform Specific Download (PSD) form.

FOS PSD releases provide a smaller version of the FOS image that can only be loaded on a single hardware platform, consisting of a single switch model or group of switch models. These FOS PSD images enable much faster download and file transfer times since they are between 65-90% smaller in size than traditional full FOS images.

Unlike traditional FOS release images that can be installed on any supported Brocade switch and director, FOS PSD images must be downloaded separately for each platform that the FOS release will be used on. The full list of unique FOS PSD images available for this release and the models that each PSD image supports is noted in [FOS Image Filenames](#).

6.1.1 Using FOS PSDs

FOS PSD images are generally used in the same manner as traditional full FOS release images.

Once loaded onto a switch, the FOS image running is identical to what would be in use if a traditional full image was used for the installation. Issuing a `firmwareshow` command on a switch will display only the FOS version level, with no indication of whether the code was loaded from a FOS PSD image or a full FOS image.

6.1.1.1 Loading FOS PSDs via Web Tools or FOS Command Line

Installing a FOS PSD image on a switch is performed in the same manner as using a traditional full FOS image. If a FOS PSD image is loaded on an incorrect switch model (for example, attempting to load a FOS PSD image for a Gen 8 entry level switch on a Gen 8 Director), the following error message displays:

```
The server is inaccessible or firmware path is invalid or the firmware doesn't
support this platform. Please make sure the server name/IP address and the firmware
path are valid, the protocol and authentication are supported. It is also possible
that the RSA host key could have been changed and please contact the System
Administrator for adding the correct host key.
```

6.2 FOS Image Filenames

Fabric OS v10.0.1

Image Filename	Description
v10.0.1.sha512	Fabric OS v10.0.1 SHA512 Checksums
v10.0.1_all_mibs.tar.gz	Fabric OS v10.0.1 SNMP MIBs
v10.0.1_EXT.tar.gz	Fabric OS v10.0.1 for Linux to install on 7850 platforms
v10.0.1_EXT.zip	Fabric OS v10.0.1 for Windows to install on 7850 platform
v10.0.1_G7_ENTRY.zip	Fabric OS v10.0.1 for Windows to install on G710 platform
v10.0.1_G7_ENTRY.tar.gz	Fabric OS v10.0.1 for Linux to install on G710 platform
v10.0.1_G7_MID.tar.gz	Fabric OS v10.0.1 for Linux to install on G720 platforms
v10.0.1_G7_MID.zip	Fabric OS v10.0.1 for Windows to install on G720 platforms
v10.0.1_G8_MID.tar.gz	Fabric OS v10.0.1 for Linux to install on G820 platforms
v10.0.1_G8_MID.zip	Fabric OS v10.0.1 for Windows to install on G820 platforms
v10.0.1_G7_ENTP.tar.gz	Fabric OS v10.0.1 for Linux to install on G730 platform
v10.0.1_G7_ENTP.zip	Fabric OS v10.0.1 for Windows to install on G730 platform
v10.0.1_G7_DIR.tar.gz	Fabric OS v10.0.1 for Linux to install on X7-8 and X7-4 platforms
v10.0.1_G7_DIR.zip	Fabric OS v10.0.1 for Windows to install on X7-8, X7-4 platforms
v10.0.1_G8_DIR.zip	Fabric OS v10.0.1 for Windows to install on X8-8, X8-4 platforms
v10.0.1_G8_DIR.zip	Fabric OS v10.0.1 for Windows to install on X8-8, X8-4 platforms
v10.0.1.releasenotes_v1.pdf	Fabric OS v10.0.1 Release Notes

The image files for each respective platform can be downloaded from your switch vendor's website and support.broadcom.com, except for YANG files which are available on www.broadcom.com/products/fibre-channel-networking/software/fabric-operating-system.

6.3 Migration Path

This section contains important details to consider before migrating to or from this FOS release. Refer to the *Brocade Fabric OS Software Upgrade User Guide* for detailed instructions on non-disruptive and disruptive upgrade procedures.

6.3.1 Migrating to FOS v10.0.1

The supported upgrade paths to Fabric OS v10.0.1 are as follows:

Current Version	Upgrade Path
FOS v10.0.0/a/a1	Nondisruptive upgrade
FOS v9.2.2x	Nondisruptive upgrade
FOS v9.2.1x	Disruptive upgrade (allowed using <code>firmwaredownload -s</code>) not recommended for production environments
FOS v9.2.0x	Direct upgrade is not supported and will be blocked First upgrade from FOS v9.2.0x to v9.2.2x, then upgrade to v10.0.0
FOS v9.1.x	Direct upgrade is not supported and will be blocked First upgrade from FOS v9.1.x to v9.2.0x, then upgrade to v9.2.2x followed by upgrade to v10.0.0 (Install TruFOS certificate prior to upgrading to v9.2.x if not already present)

Refer to the *Brocade Fabric OS Software Upgrade User Guide* for detailed instructions on non-disruptive and disruptive upgrade procedures.

NOTE Gen 8 platforms do not support downgrade from FOS v10.0.1 to v10.0.0.

This does not apply to Gen 7 platforms.

NOTE Environments with Gen 7 switches in AG mode and deployment of QoS zones should not upgrade to FOS v10.0.0a. See the section [Miscellaneous](#) under [Important Notes](#) for more information.

Environments with Gen 7 switches in AG mode and deployment with SDDQ enabled should disable SDDQ (MAPS action) during upgrade to FOS v10.0.0a. After upgrade is completed SDDQ can be reenabled.

NOTE If a Gen 7 platform is downgraded from FOS v9.2.2x to v9.2.1x -while weak SMTPS ciphers are configured- it is necessary to first upgrade to FOS v9.2.2x before proceeding with the upgrade to FOS v10.0.x.

NOTE When this message is printed on outbound SCP operation.

The server is inaccessible or firmware path is invalid or the firmware doesn't support this platform. Please make sure the server name/IP address and the firmware path are valid, the protocol and authentication are supported.

The following is a possible cause for the message.

An external server using updated opensource for OpenSSH that includes post quantum cryptography will fail the SCP operation from the switch or chassis due to the precedence usage of stronger (PQC) algorithms. The stronger algorithms are required to exist in the switch or chassis `ssh_config` file.

Switches shipped with FOS v9.2.x or v10.0.0x or switch missing the `ssh_config` file or if firmware cleaninstall has been performed.

The following workaround(s) can be used for any outbound SCP operation from the switch. Consult your security requirements and perform one of three operations.

Execute the command `seccryptocfg --apply default_generic` to apply the default FOS cryptographic profile

Review the current configuration for the cryptographic profile using `seccryptocfg --show` and apply the existing profile using the command `seccryptocfg --apply`.

Example:

```
X7-8:FID128:admin> seccryptocfg --apply -group SSH -attr Kex -value "ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,diffie-hellman-group-exchange-sha256,diffie-hellman-group14-sha256,diffie-hellman-group16-sha512,diffie-hellman-group18-sha512,curve25519-sha256" -force'
```

Export the default generic template using the command `seccryptocfg --export`. Then adjust the Ciphers, KEX, and MAC in the exported configuration and save the template to a new name. Import the new template using the command `seccryptocfg --import` command. Finally, apply the template using the command `seccryptocfg --apply`.

Chapter 7: Limitations and Restrictions

This chapter contains information that you should consider before you use this Fabric OS release.

7.1 Scalability

All scalability limits are subject to change. Limits may be increased once further testing has been completed, even after the release of this version of the Fabric OS software. For current scalability limits for Fabric OS software, refer to the *Brocade SAN Scalability Guidelines for Brocade Fabric OS v10.x* document.

7.2 Compatibility/Interoperability

This section describes important compatibility and interoperability across Brocade products.

7.2.1 Brocade SANnav Management Portal Compatibility

When managing SAN switches with SANnav Management Portal it is required to first upgrade SANnav Management Portal to v3.x prior to upgrading SAN switches to FOS v10.x.

For details, review the latest *SANnav Management Portal Release Notes*.

7.2.2 Web Tools Compatibility

NOTE Web Tools will always show English language irrespective of Browser or Operating System language setting.

7.2.3 Fabric OS Compatibility

- The following table lists the earliest versions of Brocade software supported in this release, that is, the earliest supported software versions that interoperate. Use the latest software versions to get the greatest benefit from the SAN.
- To ensure that a configuration is fully supported, always check the appropriate SAN, storage, or blade server product support page to verify support of specific code levels on specific switch platforms before installing on your switch. Use only Fabric OS versions that are supported by the provider.
- For a list of the effective End-of-Availability dates for all versions of Fabric OS software, refer to the *Brocade Software End-of-Availability Notice* published to the Brocade Product End-of-Life web page www.broadcom.com/support/fibre-channel-networking/eol.
- For the latest support and posting status of all release of Brocade Fabric OS, refer to the *Brocade Software: Software Release Support and Posting Matrices* published to the Brocade Product End-of-Life web page www.broadcom.com/support/fibre-channel-networking/eol.

Supported Products	Fabric OS Interoperability
Brocade 7840	FOS v8.2.3x (Not compatible in the same fabric. Must use FCR)
Brocade 6520	FOS v8.2.3x (Not compatible in the same fabric. Must use FCR or connect as AG)
Brocade 6543	FOS v8.2.3x (Not compatible in the same fabric. Must use FCR or connect as AG)
Brocade 6547	FOS v8.2.3x (Not compatible in the same fabric. Must use FCR or connect as AG)
Brocade 6558	FOS v8.2.3x (Not compatible in the same fabric. Must use FCR or connect as AG)
Brocade G610 (switchType 170.0 to 170.3)	FOS v9.1.x
Brocade G610 (switchType 170.4 or higher)	FOS v9.1.x
Brocade G620 (switchType 162)	FOS v9.1.x
Brocade G620 (switchType 183.0)	FOS v9.1.x
Brocade G630 (switchType 173)	FOS v9.1.x
Brocade G630 (switchType 184)	FOS v9.1.x
Brocade 7810	FOS v9.1.x
Brocade X6-8/X6-4	FOS v9.1.x
Brocade X6-8/X6-4 (switchType 166.5 and 165.5)	FOS v9.1.x
Brocade G710 (switchType 191.0)	FOS v9.2.2
Brocade G720 (switchType 181.0)	FOS v9.1.x
Brocade G730 (switchType 189.8)	FOS v9.1.x
Brocade X7-8/X7-4	FOS v9.1.x
Brocade G648	FOS v9.1.x
Brocade MXG610	FOS v9.1.x
Brocade 7850	FOS v9.2.x or later
Brocade X8-8/X8-4	FOS v10.0.x
Brocade G820	FOS v10.0.x

7.2.4 SNMP Support

Fabric OS v10.x documents the supported MIBs in the *Brocade Fabric OS MIB Reference Manual*. For information about SNMP support in Fabric OS software and how to use MIBs, refer to the *Brocade Fabric OS Administration Guide for Fabric OS v10.x*.

7.2.5 Obtaining MIBs

You can download the MIB files required for this release from the Downloads area of the support portal site. To download the Brocade-specific MIBs, you must have a username and password. Perform the following steps:

1. Go to support.broadcom.com, click **Login**, and enter your username and password.

If you do not have an account, click **Register** to set up your account.

2. Select **Brocade Storage Networking** in the support portal.

Broadcom does not distribute standard MIBs. Download the required standard MIBs from the www.oidview.com or www.simpleweb.org/ietf/mibs.

7.2.6 REST API Support

Fabric OS v10.x documents the supported REST API functions in the *Brocade Fabric OS REST API Reference Manual*.

7.2.6.1 Obtaining YANG Files

YANG is a standard data modelling language that defines the data sent over the FOS REST API. Each FOS REST API module is defined in a YANG module file with a `.yang` name extension. To download the Brocade FOS-specific YANG files from the Broadcom website, perform the following steps:

1. Go to www.broadcom.com/products/fibre-channel-networking/software/fabric-operating-system.
2. Select **Downloads**.
3. The YANG files can be located under the Yang Module.
4. Unzip or untar the Fabric OS package file; the `yang.tar.gz` file contains the collection of YANG module files that this FOS release version supports. Untar the `yang.tar.gz` file to obtain individual YANG module files.

7.3 Important Notes

Brocade recommends to always review Important Notes for each release.

7.3.1 Maximum Number of DCC Members

The maximum allowed number of Device Connection Control, DCC members that can be defined and active is enforced in FOS v10.x.

In FOS v9.2.2 environments with more than 3700 DCC policy members (the actual max number is a combination of DCC, SCC and FCS members) may encounter a situation where upgrade to FOS v10.x is blocked and the error message below will be displayed directing the user to reduce the DCC policy members.

```
"FID:<fid_num>, Current ACL POLICY active Database has exceeded the maximum allowed
policy member limit in the target version. Delete <num_of_dcc_members_to_be_deleted> DCC
members from the active policy Database using CLI \"secpolicyremove
<name>,<member>[;<member>...]\".
```

7.3.2 DWDM

When connecting Gen 8 platforms to DWDM from Adva/Adtran it is necessary to use 64G SFP+ until connectivity support using 128G SFP+ is available from Adva.

7.3.3 ICL Connectivity between X7 and X8

ICL connectivity between X7 and X8 is supported with the following prerequisites:

- The QSFPs in the X7 must have serial number prefix BABxxxxxxx
- The X7 must be running FOS v10.x or later
- After you migrate to FOS 10.0.x, you must power cycle each core routing blade on the X7 director.
Run the `slotPowerOff` command followed by the `slotPowerOn` command on each core routing blade.
- The QSFPs in the X7 must be upgraded to the latest firmware
- On the X8 the OSFP port speed must be configured to 53G

1. Verify the QSFPs serial number in the X7 using the `sfpshow` command.

Example:

The BABxxxxxxx QSFP is supported.

```
X7-8:FID128:admin> sfpshow | grep "Slot 7" |grep "BROCADE"
Slot 7/Port 0: id 0/0 (sw) Vendor: BROCADE      Serial No: BAB220410000028  Speed: 53_Gbps
Slot 7/Port 1: id 0/1 (sw) Vendor: BROCADE      Serial No: BAB220410000028  Speed: 53_Gbps
Slot 7/Port 2: id 0/2 (sw) Vendor: BROCADE      Serial No: BAB220410000028  Speed: 53_Gbps
Slot 7/Port 3: id 0/3 (sw) Vendor: BROCADE      Serial No: BAB220410000028  Speed: 53_Gbps
-----Truncated-----
```

The BARxxxxxxx QSFP is not supported. If the QSFP is not supported it must be replaced, contact your vendor.

```
X7-8:FID128:admin> sfpshow | grep "Slot 8" |grep "BROCADE"
Slot 8/Port 0: id 0/0 (sw) Vendor: BROCADE      Serial No: BAR420230000163  Speed: 53_Gbps
Slot 8/Port 1: id 0/1 (sw) Vendor: BROCADE      Serial No: BAR420230000163  Speed: 53_Gbps
Slot 8/Port 2: id 0/2 (sw) Vendor: BROCADE      Serial No: BAR420230000163  Speed: 53_Gbps
Slot 8/Port 3: id 0/3 (sw) Vendor: BROCADE      Serial No: BAR420230000163  Speed: 53_Gbps
-----Truncated-----
```

2. To verify the FOS version running on the X7 use the command `version`.

Example:

```
X7-8:FID128:admin> version
Fabric OS:   v10.0.1
Made on:    Fri Jun 19 17:26:07 2026
Flash:      Fri Jun 19 19:04:41 2026
BootProm:   2.0.20-sb
```

3. To upgrade the QSFPs on the X7 using the `sfpupgrade` command (the QSFP ports must be disabled prior to issuing the command).

Example:

```
X7-8:FID128:admin> sfpupgrade 7/0-63

X7-8:FID128:admin> sfpupgrade 8/0-63
```

Upon successful completion, verify the MCU version is 0x6, DSP version is 0x6 using the `sfpshow` command.

Example:

```
X7-8:FID128:admin> sfpshow 7/0 -f -verbose
```

4. Configure the speed on the OSFPs in X8 using the command `portcfgspeed`.

Example:

```
X8-8:FID128:admin> portcfgspeed -slot 13 53
Note: Consult the hardware installation guide for requirements to connect ICLs to Gen 7 ICLs.

X8-8:FID128:admin> portcfgspeed -slot 14 53
Note: Consult the hardware installation guide for requirements to connect ICLs to Gen 7 ICLs.
```

5. For the latest list of qualified breakout cables see the *Brocade High-Density Cabling Design Guide*.

7.3.4 SAN Fabric Intelligence

In FOS v10.0.0x the following applies to SAN Fabric Intelligence.

- When using SAN FI commands, EX_Ports are displayed as 'Other'.
- When using SAN FI commands, to query F_Port trunks the subordinate ports are displayed as 'Other'.
- For details on SAN Fabric Intelligence see [SAN Fabric Intelligence \(SAN FI\)](#).

7.3.5 Secure SMTP

In FOS v10.x, it is mandatory to import CA certificates when configuring and using Secure SMTP (without which TLS connection establishment with the SMTP server fails).

In FOS v9.2.x it was not required to import CA certificates when configuring Secure SMTP. Upgrade to FOS v10.x is blocked when Secure SMTP is configured without import of CA certificates.

7.3.6 System Shutdown

When upgrading X8 to FOS v10.0.0a the power monitoring is updated. In exceptional circumstances the update does not complete fully in time before the firmware upgrade is completed and the error EM-1135 "PMON: pmonupgrade failed" is displayed in the RAS log.

In these cases, the user must manually issue the command `pmonupgrade` on the CP(s) from which the error is reported to complete the power monitoring upgrade.

This upgrade is non-disruptive.

Example:

```
2025/11/25-00:37:31:847765 (GMT), [EM-1135], 529/18, SLOT 6 | CHASSIS, WARNING, X8-4, PMON:
pmonupgrade failed: -1.Please use pmonupgrade to do the config update manually.. , pmonupgrade.c,
line: 74, comp:em_pmon, ltime:2025/11/25-00:37:31:847209
```

Execution of pmonupgrade on the CP in slot 6:

```
X8:FID128:admin> pmonupgrade --show
```

```
MFR_REVISION: 0213
```

```
MFR_DATE: 250205
```

```
X8:FID128:admin> pmonupgrade
```

```
pmonupgrade to Version18 in progress. Please do not powercycle or reboot the switch
```

```
2025/11/25-19:06:11 (GMT), [EM-1136], 340, SLOT 8 | CHASSIS, WARNING, X8-8, PMON: Successfully
upgraded to V18
```

```
X8:FID128:admin> pmonupgrade --show
```

```
MFR_REVISION: 0215
```

```
MFR_DATE: 250929
```

7.3.7 Obsoletions in FOS v10.x

In FOS v10.x the following protocols and functions are obsoleted and upgrade to FOS v10.x from FOS v9.2x is blocked when configured or in use:

- Non-secure protocols
 - HTTP
 - FTP
 - TELNET
- TLS <1.2
- SNMPv1
- IPFC
- TACACS+
- RADIUS
- Cascaded AG
- Extension
 - FICON Emulation Modes (XRC, TAPE, Teradata, TinTlr, DcvAck)
 - Automated WTOOL, SLA
 - Note: The user WAN Test Tool is not obsoleted
- FSPF commands
 - interfaceShow
 - nbrShow
- FCR boot over SAN
- FCR LSAN Tags

- FCoE
- End Device/Port RSCN Suppression
- The command `psutil`

7.3.8 OUI

The OUI (Organizationally Unique Identifier) B8:CE:ED (for example, 10:00:B8:CE:ED:xx:xx:xx) introduced with newer switches is supported in topologies using AG or FCR with FOS v10.x.

7.3.9 Miscellaneous

- `chassisenable/switchenable` is blocked after executing `chassisdisable/switchdisable` followed by offline diagnostics. It is necessary to afterwards reenble the switch using the command `chassisreboot` on Directors or `reboot` on fixed form factor switches.
- When replacing/powering on core blades with POST enabled, it is necessary for the core blades to complete boot up before replacing/powering on other Core Blade, Port blades or ICL blades.
- When replacing/powering on ICL blades with POST enabled, it is necessary for the ICL blade to complete boot up before replacing/powering on the other ICL blade and Core Blades.
- On X8-8/4 users might observe connection to the management port toggle once during boot up.
- On Gen 7 platforms upgraded to FOS v10.x. When the intent is to downgrade from FOS v10.x to FOS v9.2.x after performing a clean install of firmware on FOS v10.x. It is necessary to first backup licenses prior to performing the `firmwarecleaninstall` on FOS v10.x -then reinstall the licenses and downgrade to FOS 9.2.x. Reinstall of the licenses are required after a clean install is performed, prior to downgrade to FOS v9.2.x. In case licenses were not backed up contact your support provider. Downgrade from FOS v10.x to v9.2.x does not require backup/restore of licenses when `firmwarecleaninstall` has not been performed prior.
- FOS 10.x introduces several security enhancements. Upon upgrade from FOS v9.2.x to FOS 10.x any customer scripts or test scripts that may have been previously installed are automatically deleted. This clean up during the firmware upgrade is performed to ensure that proper security of the system can be monitored and maintained. In FOS v10.x `snmpconfig` no longer supports 'No Security' and 'Authentication Only'. Consequently, upgrade to FOS v10.x is blocked if any active SNMPv3 user is configured with NoAuth and/or NoPriv.
- Gen 8 platforms do not support downgrade to FOS v10.0.0.
- On Gen 8 platforms configured with Virtual Fabrics disabled (`fosconfig --show Virtual Fabric: disabled`). If Fibre Channel Routing (FCR) is then enabled (`fosconfig --enable fcr`) then it is required to perform a `chassisreboot` on X8 or a `reboot` on G820 for FCR to be fully functional.
- Environments with Gen 7 switches in AG mode and deployment of QoS zones should not upgrade to FOS v10.0.0a but instead upgrade to FOS v10.0.1. In case it is needed to upgrade the environment to FOS v10.0.0a, it is necessary to first replace all QoS zones with standard zones or peer zones. After upgrade the QoS zones can be reimplemented.
- Environments with Gen 7 switches in AG mode and deployment with SDDQ enabled should not upgrade to FOS v10.0.0a but instead upgrade to FOS v10.0.1. In case it is needed to upgrade the environment to FOS v10.0.0a it is necessary to first disable SDDQ (MAPS action) during upgrade to FOS v10.0.0a. After upgrade is completed SDDQ can be reenbled.
- The command `fosexec` is deprecated in FOS v10.0.1 and will be obsoleted in a future release.
- On Gen 8 platforms with IPS logical switch. The switch will not transmit a TTL expired packet back to the sender when it receives a packet with TTL=0 or TTL=1. As a result, Gen 8 IPS switches will not participate in execution of `traceroute`.

- On Gen8 platforms with IPS logical switch, the ingress congestion discard packets are reported under port statistics but are not reported under the RX drop counters in flow stats.
- In FOS v10.0.1 (and later) support for 50G Ethernet has been removed from IPS LS.
- 32G SWL SFPs with serial numbers beginning with JAAC should not be installed in G748 platforms running FOS v10.0.1.

Chapter 8: Security Vulnerability Fixes

In addition to defect fixes, software releases may also contain updates to address Common Vulnerabilities and Exposures (CVEs). The latest security vulnerability disclosures and descriptions of each CVE can be found by visiting the Brocade Security Advisories web page:

www.broadcom.com/support/fibre-channel-networking/security-advisories

Specific CVEs addressed within any given software release will be publicly released a short period after the initial posting of the software. This is done to provide enough time for OEMs to qualify security updates prior to public disclosure.

The exact CVEs addressed within the Fabric OS v10.x software releases are provided in the following security announcement:

support.broadcom.com/external/content/SecurityAdvisories/0/25000

Chapter 9: Defects

9.1 Closed with Code Changes in FOS v10.0.1

Defect ID	Description
FOS-869012	Devices stopped communication and Class 3 frame timeout logged on long-distance ISLs
FOS-869905	Webserver will not restart while updating cipher for HTTPS.
FOS-871316	Trunk E-Port speed is incorrect in SanFI output, when different speed trunks are present between switches.
FOS-871661	Target Driven Zones are not getting created or removed and require follow-up AAPZ or RAPZ operations.
FOS-871704	"sanfi -switch -summary" CLI does not show the correct count of E-Ports/LISL links if multiple LISLs are present.
FOS-871949	'sys_flow_monitor show stats' CLI indicates the flow direction is reversed for TX and RX.
FOS-872069	Not able to discover the switch in SANnav.
FOS-872646	Storage ports connected to Gen6 blade or switch will not come online.
FOS-873026	Unable to manage the switch through the GUI.
FOS-873046	The telemetry messages for the FC Port Metrics topic "FibreChannelPortMetrics" are not being distributed across all 16 available partitions.
FOS-873146	Incomplete supportsave due to module timeout.
FOS-873148	Multiple SFPs in the same port group report "Mod-Val" state at the same time.
FOS-873269	Switch panic while processing multi-frame communication from end device.
FOS-873602	Multiple SFPDDs/SFPs in the same port group report "Mod-Val" state at the same time.
FOS-874215	Multiple QSFPs or SFPDD in the same port group report "Mod-Val" state at the same time
FOS-874482	Devices in AG stuck in G-port state after mapped trunk ports bounce.
FOS-874772	Switch panic after detected termination of MAPs Daemon (process mdd).
FOS-874851	CLI sfupgrade may fail when upgrading Gen7 QSFP firmware; Even when the upgrade is successful, the changes do not take effect until a power cycle of the core blade.
FOS-874899	Attempts to perform zoning configuration changes fail with the error: "Zone fabric lock update exchange error (rjtdom <domain_ID>, ufcserrocode 19, ufcsrcsn "switch_Not_Available")". System logs (errdump) will show UFCS Lock stage failed messages, and zoning CLI commands may return SWITCH_NOT_AVAILABLE.
FOS-875044	Switch panic while performing zoning operating.
FOS-875282	REST API call GET /rest/running/brocade-interface/fibrechannel fails with security Raslog SEC-3047 Info: RBAC permission for a CLI command: diagshow is failed.
FOS-875292	The following RASlog error streams every 10 seconds: "[C4-1045]: Single parity error detected in ftb statistics memory". If a switch runs FOS v9.2.0 or later, this condition may cause the switch or blade to fault, resulting in an EM-1134 RASlog.
FOS-875294	Observed "mod_val" ports on switches.

FOS-875637	Observed "Fabric Operating System's Integrity Check Failed"
FOS-876108	32G SWL SFP ports report Mod_Val.
FOS-876216	The CLI command distribute -p "PWD" -d "*" fails with the following error: "Error: Distribute to firmware version < 9.2.2 is not supported" This occurs even when the target switch is running a supported version of Fabric OS.
FOS-876362	A fabric enable operation fails with the error message: "enable failed :Sfc was rejected: remote switch unable to process". Additionally, ZONE-1019 and RCS-1006 error messages may be observed in the system logs.
FOS-876942	The following symptoms have been observed regarding this defect: - The npd daemon panics after running out of memory or entering a defunct state. - Users receive the error "Flow vision service is initializing. Please retry the request" when attempting to execute flow commands. - On GEN6, learning is not enabled on the F port trunk unless the master port index matches the trunk index.

9.2 Closed without Code Changes in FOS v10.0.1

Defect ID	Description
FOS-867544	SSH login via device flow using federated authentication fails (times out).
FOS-869494	Distribution of password DB will be blocked if receiver has 'consoleaccess' password configuration enabled and sender has it disabled.
FOS-869548	REST does not have distance parameter under long distance config.
FOS-871070	ETH statistics aren't cleared when using REST API.
FOS-873026	Unable to manage the switch through the GUI.
FOS-873503	Unable to launch webtools in SCG environment.
FOS-875234	A 32G DWDM port on the G620 is disabled after reporting excessive ASIC errors (C4-1060).
FOS-876747	An HTTP REST request (specifically targeting /rest/running/brocade-interface/fibrechannel) may become unresponsive and eventually hit a timeout condition. This issue triggers a critical system message: [SMCL01] SCN-1001 SCN queue overflow for process 0.weblinker.fcg. Following the subsequent process restart, stale or orphaned weblinker child processes (with PPID = 1) are left behind in the system.

9.3 Open in FOS v10.0.1

Defect ID	Description
FOS-872537	Switch panic after running out of kernel resources.
FOS-873135	Inconsistent "Connected Port Details" output on some E-port trunks for "sanfi -port" command.
FOS-873511	User may encounter an 'mdd panic' on the switch, and the mdd daemon is automatically restarted.
FOS-874918	A switch may experience an unexpected reboot triggered by a kernel panic.
FOS-875757	With sys_flow_monitor active on the IPS logical switch, the transmitted (TX) frame statistics are higher than the expected throughput on X-7 chassis.
FOS-875910	tsclockserver --show output displays active server as NONE while switch is actively syncing with the configured NTP server.
FOS-875938	Hareboot results in a cold recovery of switches in the fabric.
FOS-876219	"rsync warning" and "file vanished" message on console.
FOS-876267	'sanfi -lun' CLI may list some stale LUNs which are not associated with the fabric with current configurations.
FOS-876469	When the active policy has Rule-on-Rule (RoR) on a base rule, the base rule can be deleted leaving RoR in an unmonitored state on the next policy enable.
FOS-876604	CLI sanfi --lun displays a list of LUNs that are no longer mapped to the server under test. The server is retaining stale or cached SCSI device configurations.
FOS-876629	Observe a RTWR-1003 raslog which eventually leads to a resource exhaustion and a switch panic.
FOS-877208	"supportsave -R" on active CP clears all core files in the active CP (root and /mnt partition), but not in the standby CP.
FOS-877313	"failed to open syswatch device rc=-1" messages seen during firmwarecleaninstall.
FOS-877415	Current and All throughput values do not match in flow --show sys_flow_monitor -port <port> and flow --show sys_flow_monitor -srcdev <sid> -dstdev <did> outputs for IPS flows.
FOS-877546	syslog and ddns services are not working.
FOS-877903	"help portstats64show" CLI doesn't show the help.
FOS-879078	Web Tools displays Management Ethernet speed for X8-4 and X8-8 as 10000 Mbps instead of actual speed of 1000 Mbps. No functional impact.
FOS-879226	Firmware download via webtools from usb option is failing firmware signature.

Revision History

Version	Summary of changes	Publication date
1	Initial version of document	06/25/2026

