

FOS 8.2.0b Release Notes

Contents of this file:

HPE B-series Fabric OS 8.2.0b Release Notes

Brocade Fabric OS v8.2.0b Release Notes v1.0

HPE B-series Fabric OS 8.2.0b

Release Notes

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Description

Brocade Release Notes have been included in this document, and can also be found as a pdf on HPE's web site at the HPE Support Center. See the Brocade Release Notes for general information and details on fixes as well as other important information pertinent to this release. The HPE B-series Release Notes only contain HPE specific information related 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.

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

To access Fabric OS 8.2.0b firmware, Release Notes, configuration files, and MIB files:

- Go to <http://www.hpe.com>.
- Select **Support** from the drop-down menu in the top right corner of the home page.
- Under Product Support, click **HPE Support Center**.
- Enter your B-series switch (i.e. SN6600B) into the search box, and you will be presented with a list of models associated with this switch. Click on the link for your model.
- Click **Drivers & Software**.
- Select **Firmware (Entitlement required) Version: v8.2.0b**
- To read the Firmware Release Notes, click on the **Release Notes** link

B-series Universal Temporary Licenses for Optimal FOS features

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. 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 are valid for a **period of 60 days after installation** on a given switch.
- 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.

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: <http://www.hpe.com>.

Supported product models

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

Under “Other Hardware”, select “Switches”. You must sign up for an HPE Passport to access this website.

Fibre Channel and Fibre Channel Routing scalability

For the latest information about Fibre Channel and Fibre Channel Routing (FCR) scalability support, see the *HPE StorageWorks SAN Design Reference Guide*, available on the HPE website,

at: <http://www.hpe.com/storage/spock>

Access Gateway device-based mapping in ESX environments

Users who want to utilize Access Gateway’s Device-based mapping feature in the 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. This document can be downloaded from the B-series Switch Product Manuals section on HPE.com.

Considerations for FICON environments

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

Under “Other Hardware”, select “Switches” and scroll down to “FICON Switches”. You must sign up for an HPE Passport to access this website.

Fabric OS v8.2.0b

Brocade SAN Product Family

Release Notes

Version 1.0

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Chapter 1: Preface

1.1 Contacting Brocade Technical Support

As a Brocade customer, you can contact Brocade Technical Support 24x7 online, by telephone, or by email. Brocade OEM customers contact their OEM/Solutions provider. To expedite your call, have the following information immediately available:

1. 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 running FOS v6.2 and above, 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 specific questions
- Description of any troubleshooting steps already performed and the results
- Serial console and Telnet session logs
- Syslog message logs

2. Switch Serial Number:

The switch serial number is provided on the serial number label, examples of which are shown here:



The serial number label is located as follows:

- Brocade 6510, 6505, 6520, 630, G620, G610 — On the switch ID pull-out tab located on the bottom of the port side of the switch
- Brocade 7840 — 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 in a well on the left side underneath (looking from front)
- Brocade DCX 8510-8 — Bottom right of the port side
- Brocade DCX 8510-4 — Back, upper left under the power supply
- Brocade X6-8, X6-4 — Lower portion of the chassis on the non-port side beneath the fan assemblies

3. 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.

4. License Identifier (License ID):

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

Use the **licenseIdShow** command to display the License Identifier.

1.1.1 Brocade Customers

For product support information and the latest information on contacting the Technical Assistance Center, go to <http://www2.brocade.com/en/support/contact-brocade-support.html>.

If you have purchased Brocade product support directly from Brocade, use one of the following methods to contact the Brocade Technical Assistance Center 24x7.

Online	Telephone
Preferred method of contact for non-urgent issues: <ul style="list-style-type: none"> ▪ My Cases through MyBrocade ▪ Software downloads and licensing tools ▪ Knowledge Base 	Required for Sev 1-Critical and Sev North America: 1-800-752-8061 (Toll-free) International: 1-408-333-6061 (Not toll-free) Toll-free numbers are available in many countries and are listed on the http://www2.brocade.com/en/support/contact-brocade-support.html page.

1.1.2 Brocade OEM Customers

If you have purchased Brocade product support from a Brocade OEM/Solution Provider, contact your OEM/Solution Provider for all of your product support needs.

- OEM/Solution Providers are trained and certified by Brocade to support Brocade® products.
- Brocade 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, contact Brocade or your OEM.
- For questions regarding service levels and response times, contact your OEM/Solution Provider.

1.2 Related Documentation

Visit the Brocade website to locate related documentation for your product and additional Brocade resources.

White papers, data sheets, and the most recent versions of Brocade software and hardware manuals are available at www.broadcom.com.

Product documentation for all supported releases is available to registered users at MyBrocade. Click the Support tab and select Document Library to access documentation on MyBrocade or www.broadcom.com. Locate documentation by product or by operating system.

Release notes are bundled with software downloads on MyBrocade. Links to software downloads are available on the MyBrocade landing page and in the Document Library.

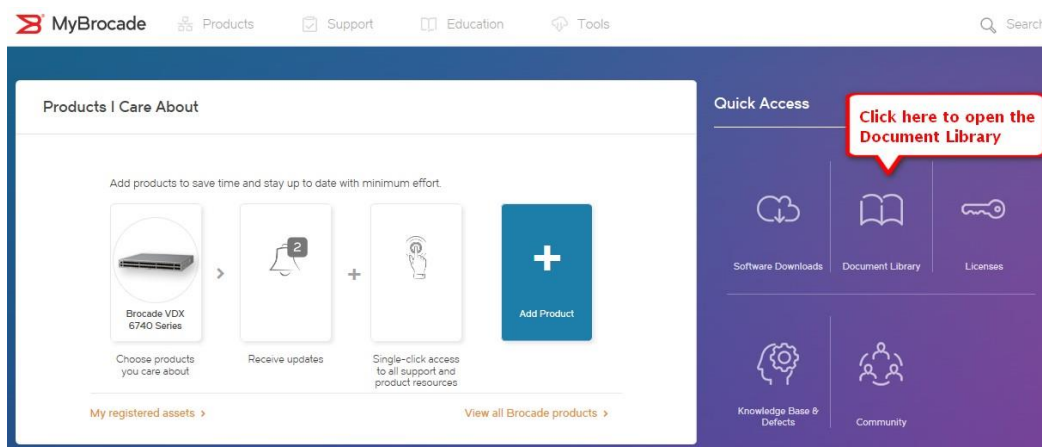
Chapter 2: Locating Product Manuals and Release Notes

The following sections outline how to locate and download Brocade product manuals and release notes from mybrocade.com. While the illustrations show Fabric OS (OS), they work for all Brocade products and operating systems.

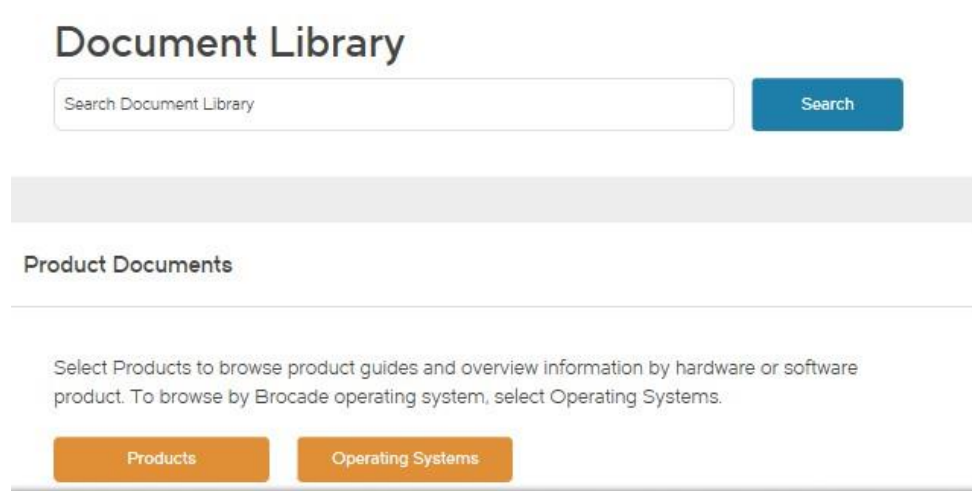
2.1 Locating Product Manuals

Complete the following steps to locate your product manuals in MyBrocade.com.

1. Open <http://my.brocade.com> and log in. If you do not have a login, registration is free. Click on **Register Now** and follow the directions.
2. Once you have logged in, the product manuals can be found by clicking **Documentation Library**.

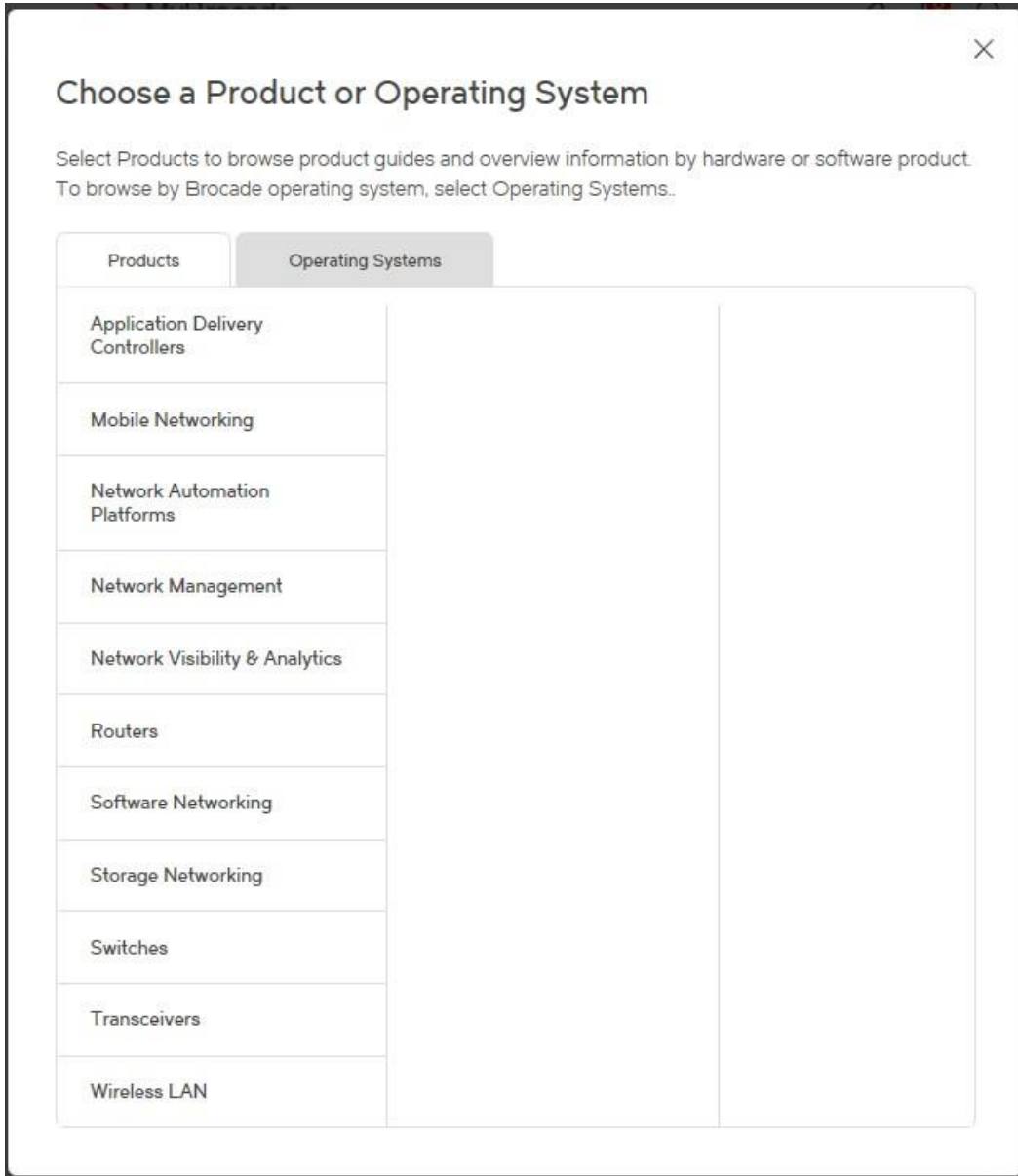


3. Select **Products** to browse product guides and overview information, or select Operating Systems to browse by Brocade operating system. Alternatively, you can enter a term in the search bar.



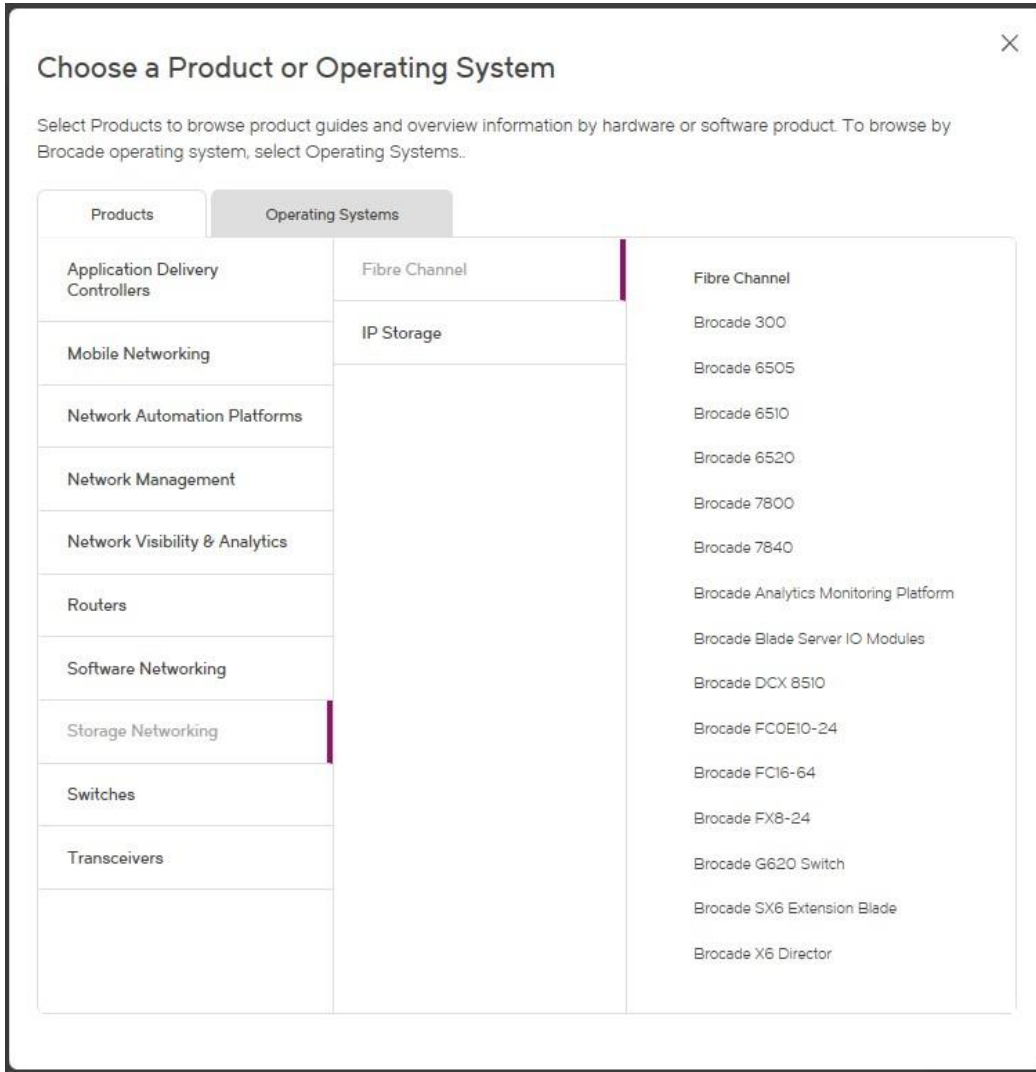
2.1.1 Selecting by Product

1. Click **Product** and choose your product from the displayed panel.



As you make your selections, the columns to the right will fill in with the available options.

The following illustration shows an example of selecting **Storage Networking** and **Fibre Channel**.



2. Click on the product whose documentation you want to view. This opens the Document Library for that product.

The screenshot shows the Document Library for Brocade X6 Directors. At the top, it says "Document Library" and "Fibre Channel". The main heading is "Brocade X6 Director". Below this, there is a brief description: "Brocade X6 Directors provide the performance and availability you need to take full advantage of flash solutions, plus seamless next-generation flash storage integration based on NVMe." To the right is an image of a Brocade X6 Director server. Below the description is a "Learn More" link. The "Featured Resources" section includes three cards: "Data Sheet: Brocade X6 Directors Data sheet", "FAQs: Brocade Fabric Vision...", and "White Paper: Cloud Optimized...". The "Product Guides" section is active, showing a list of documents: "Brocade X6 Director Technical Specifications", "Brocade X6-4 Director Hardware Installation Guide", and "Brocade X6-8 Director Hardware Installation Guide". Each document entry includes its type, size, date, and available formats (HTML and PDF).

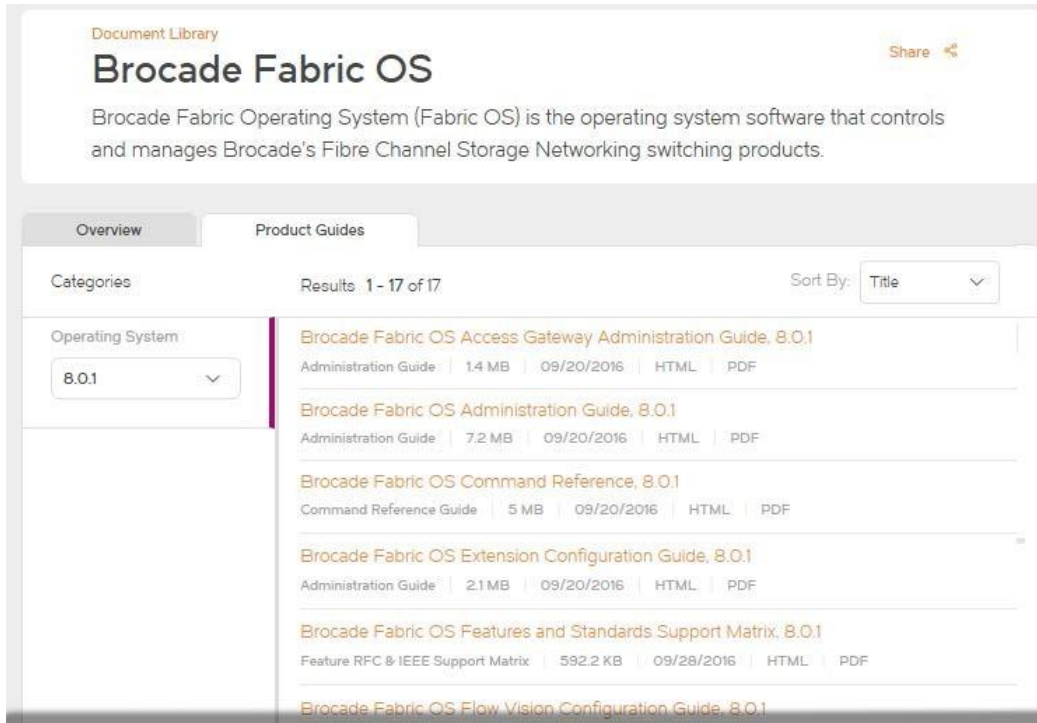
3. Click on the link for the document you want to read, and then open or save it. You may have to scroll inside the results to see the document you want.

2.1.2 Selecting by Operating System

1. Click **Operating System** and choose your operating system from the displayed panel.

The screenshot shows a dialog box titled "Choose a Product or Operating System". It contains the text: "Select Products to browse product guides and overview information by hardware or software product. To browse by Brocade operating system, select Operating Systems..". There are two tabs: "Products" and "Operating Systems". The "Operating Systems" tab is selected, showing a list of operating systems: Brocade AMP OS, Brocade BigIron, Brocade Fabric OS, Brocade FastIron OS, Brocade Mobility-OS, Brocade NetIron OS, Brocade Network OS, Brocade ServerIron ADX, Brocade Vyatta Network OS, and Ethernet Access OS.

2. Click on the name of the Operating System whose documentation you want to view. This opens the Document Library for that OS.
3. Locate and select the manuals you want to view from the results on the Product Guides tab.

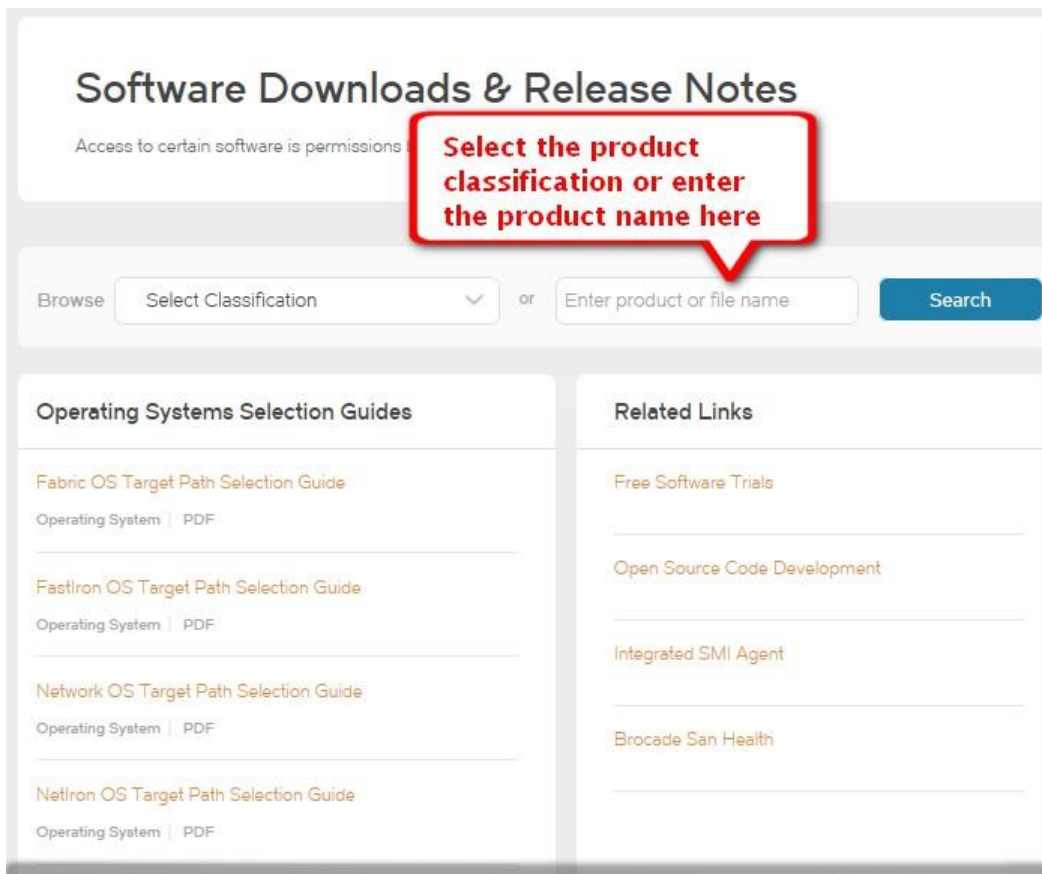


4. Click on the link for the document you want to read, and then open or save it. You may have to scroll inside the results to see the document you want.

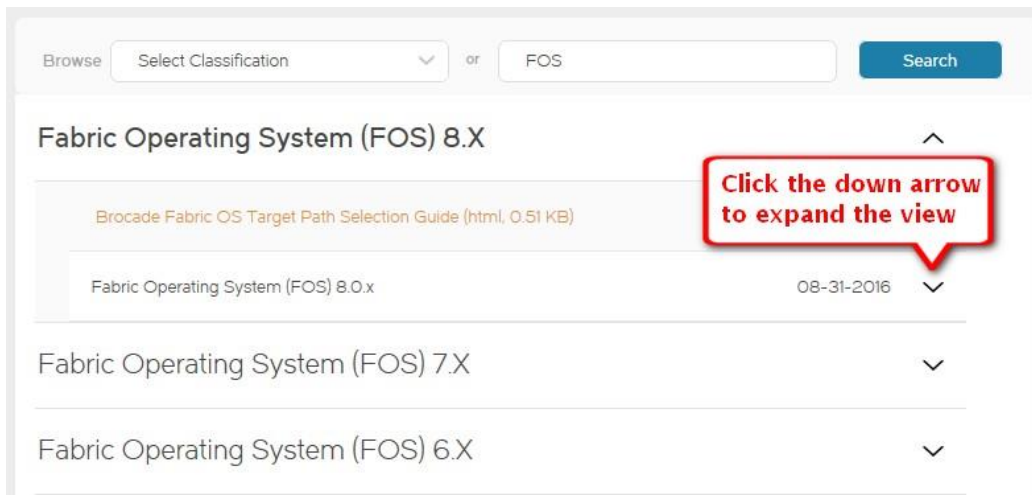
2.2 Locating Release Notes

Complete the following steps to locate the release notes for your product in MyBrocade.com.

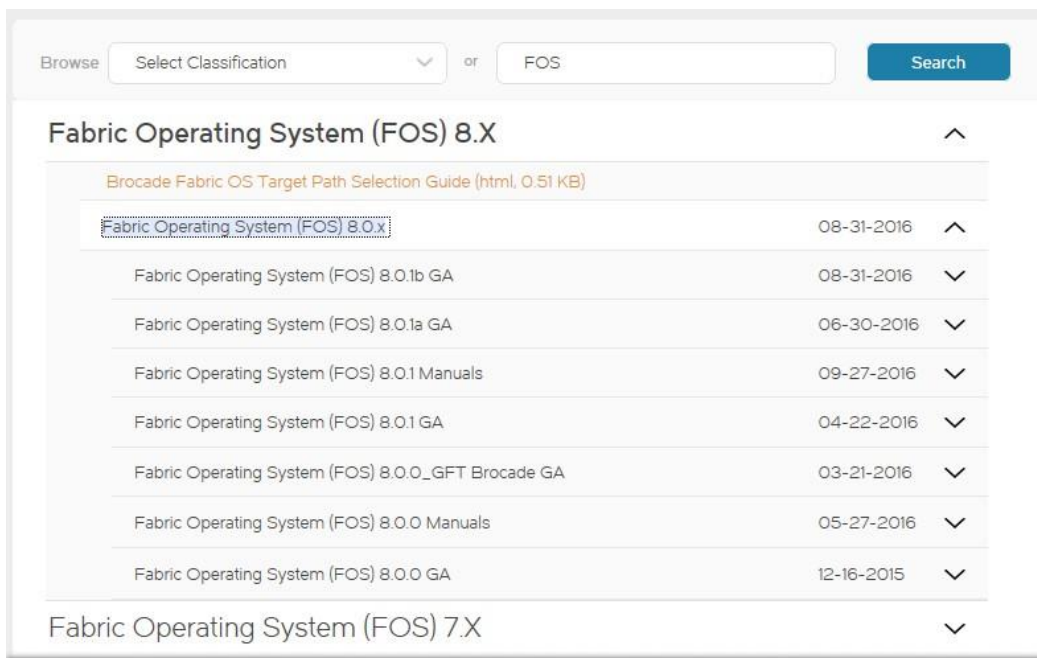
1. Open <http://my.brocade.com> and log in. If you do not have a login, registration is free. Click on **Register Now** and follow the directions.
2. Once you have logged in, the product manuals can be found using the following procedure.
3. Click **Software & Driver Downloads** under Licenses & Downloads.
4. Select the product type or enter the product name in the search field, and click **Search**.



5. The most recent release note document is shown.



6. Click the down arrow to expand and show more results.



7. Select the Release Notes you want from the displayed results.

2.3 Document Feedback

To send feedback and report errors in the documentation you can use the feedback form posted with the document or you can e-mail the documentation team.

Quality is our first concern at Brocade and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you. You can provide feedback by sending your feedback to documentation.PDL@broadcom.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Chapter 3: Overview

Fabric OS v8.2.0b is a patch release based on FOS v8.2.0a. All hardware platforms and features supported in FOS v8.2.0a are also supported in FOS v8.2.0b. FOS v8.2.0b has defect fixes listed at the end of this document.

Chapter 4: What is New in FOS v8.2.0a

4.1 Hardware

The following section lists new hardware introduced or existing hardware support added with this release as well as hardware that are no longer supported with this release.

4.1.1 New Optical Transceivers

FOS v8.2.0a supports the following new optical transceivers on the noted devices:

40-Gigabit Ethernet BiDi optics part number 57-1000339-01 (customer P/N XBR-40G-SR-BIDI-0287) on Brocade FC32-64 blade.

4.2 Software Features

The following section lists new, modified, and deprecated software features for this release.

4.2.1 Modified Software Features

The following software features have been modified in this release.

- Introduce support of in-flight encryption and compression on Brocade G630 for ISL and IFL connectivity. G630 supports in-flight encryption and compression on the SFP ports, which are divided into three encryption/compression port groups. For the supported connectivity, maximum number of ports, and maximum bandwidth for in-flight encryption and compression on Brocade G630, please refer to *Fabric OS Administrator's Guide* supporting FOS v8.2.0a.
- Introduce `brocade-access-gateway`, `brocade-fdmi`, `brocade-name-server`, and `brocade-fibrechannel-logical-switch` RESTCONF modules supported by REST API. The existing `brocade-fibrechannel` module has added support for new attributes. For detailed description of the new modules and attributes, refer to the *Fabric OS REST API Reference* supporting FOS v8.2.0a.

Chapter 5: What is New in FOS v8.2.0

5.1 Hardware

The following section lists new hardware introduced with this release as well as hardware that are no longer supported with this release.

5.1.1 New Devices

Product name	Device Name
Brocade G630	Gen 6 (32 Gb/s) Fibre Channel 128-port fixed port switch

5.1.2 New Blades

Blade	Description	Compatible devices
Brocade FC32-64 Port Blade	64 port Gen 6 (32 Gb/s) Fibre Channel or 10 Gb/25 Gb/40 Gb FCoE blade	Brocade X6 Director

5.1.3 New Optical Transceivers

FOS v8.2.0 supports the following new optical transceivers on the noted devices:

128G (4x32G) 2 km Fibre Channel LWL QSFP part number 1000480-01 (customer P/N XBR-000285) on Brocade G620, G630, and FC32-64 blade.

5.1.4 Deprecated Hardware

The following blades are no longer supported starting with this release.

FC8-32E, FC8-48E, FC8-64

5.2 Software Features

The following section lists new, modified, and deprecated software features for this release.

5.2.1 New Software Features

The following software features are new in this release.

5.2.1.1 FCoE on FC32-64

FOS v8.2 supports FCoE on FC32-64 blades for connecting FCoE servers, in particular, Cisco Unified Computing System (UCS), to FC SAN storage. Flexport and QSFP port breakout are supported to configure QSFP ports with 32 Gb/s FC or 10 Gb/s/25 Gb/s/40 Gb/s Ethernet. LLDP and LACP protocols are supported for FCoE device discovery and configuration.

5.2.1.2 REST API

FOS v8.2 introduces a native RESTCONF server to provide REST API for provisioning and managing Brocade Gen 5 and Gen 6 SAN switch. The REST API is accessible by default over HTTP/HTTPS protocol. FOS v8.2 provides following functionality

- Fabric, switch, port inventory, configuration, operational state and statistics
- Zoning
- Extension configuration and statistics
- ClearLink Diagnostics (D_port)

5.2.2 Modified Software Features

The following software features have been modified in this release.

- MAPS (Monitoring and Alerting Policy Suite) enhancements
- Flow Vision and IO Insight enhancements
- ClearLink diagnostics (D_Port) enhancements
- Zoning enhancements
- FCR enhancements
- Security enhancements
- SNMP enhancements
- RAS enhancements
- Miscellaneous enhancements
- Extension enhancements

5.2.2.1 In-Flight Encryption for Brocade G620

FOS v8.2 introduces in-flight encryption support for Brocade G620 for ISL and IFL connectivity. With in-flight encryption enabled, frames will be encrypted by switch ASIC at port egress and will be decrypted by switch ASIC at port ingress at the other end of a link. Maximum number of four ports is supported for in-flight encryption on G620. Maximum bandwidth supported for encryption and compression is 64 Gb/s.

5.2.2.2 Monitoring and Alerting Policy Suite (MAPS)

FOS v8.2 includes following MAPS enhancements:

5.2.2.2.1 MAPS RASLOG Action Enhancement

FOS v8.2 enhances MAPS RASLOG alert action with custom RASLOG message IDs that are unique for each MAPS monitoring statistics and severity. Administrators can configure the enhanced MAPS RASLOG actions with command **mapsconfig --raslogmode custom**. MAPS RASLOG message IDs 2000 – 2971 are generated based on monitoring statistics. Refer to the *MAPS Threshold Values* chapter of *MAPS Configuration Guide* supporting FOS 8.2.0 for the listing of monitoring statistics and associated RASLOG IDs.

5.2.2.2.2 Traffic Performance Monitoring Enhancements

MAPS supports threshold based monitoring of imported Flow Monitor flows. FOS v8.2.0 has several enhancements for the I/O Insight metrics monitoring of the imported flows. These include I/O Bytes and I/O Counts metric, I/O Insight metrics for pre-defined flow sys_mon_all_fports, and NVMe flow metrics.

5.2.2.2.3 IP Extension Flow Monitoring

FOS v8.2 adds monitoring statistics IP_EXTN_FLOW for the number of LAN IP Extension flows Brocade 7840 and SX6 blade to alert administrators before the maximum allowed IP Extension flows per DP is reached. A new ALL_DP group is added. In MAPS dashboard, the FCIP Health category is changed to Extension Health.

5.2.2.2.4 Ethernet Optical Transceiver Monitoring

FOS v8.2 adds monitoring of Ethernet port group ALL_ETH_PORTS and monitoring of Ethernet Optic SFP/QSFPs in platforms that ports can be configured as Ethernet ports for FCoE. The optics monitoring are added to Brocade X6 with FC32-64 blade.

5.2.2.2.5 Congestion Dashboard

MAPS monitors SAN congestion with Fabric Performance Impact (FPI) monitoring. FOS v8.2 adds a congestion dashboard to MAPS to display congestion conditions below the FPI detection thresholds for IO_PERF_IMPACT and IO_FRAME_LOSS state. Congestion dashboard is supported on Brocade Gen 6 (32 Gb/s) platforms only with the command **mapsdb --show congestion**.

5.2.2.2.6 Port Decommissioning Action without Disable

FOS v8.2 enhances the DECOM action by introducing an **impaired** option to DECOM. With this option for port decommissioning, the ports are flagged as “impaired” on both sides of the ISL link. The link is no longer used for routing traffic or fabric operations unless it is the only remaining shortest path available. This isolates the underlying condition that triggered the DECOM action without taking down links permanently.

5.2.2.2.7 MAPS Predefined Policy Modification

FOS v8.2 changes the following monitoring systems to be monitored only in the default switch if Virtual Fabric is enabled. These rules are not monitored in non-default switch.

- TELNET_POLICY
- HTTP_POLICY
- LOGIN
- TS_OUT_OF_SYNC

5.2.2.2.8 Miscellaneous

FOS v8.2 includes the following miscellaneous MAPS usability enhancements.

- **mapspolicy --show** command indicates that an active MAPS policy has been changed but not enabled
- Support the “From” email address to be configured with command **mapsConfig --emailcfg -address**

5.2.2.3 Fabric Performance Impact (FPI) Monitoring

FOS v8.1.0 introduces an un-quarantine action (UNQUAR). The un-quarantine action moves a previously quarantined slow drain device out of the quarantine automatically, if the slow drain behavior has cleared for a defined timeout period. An un-quarantine action can be applied with the IO_LATENCY_CLEAR state monitoring. Users can configure an un-quarantine timeout value along with un-quarantine action. FOS v8.1.0 includes the UNQUAR action of the default FPI rules in the predefined conservative policy and moderate policy.

5.2.2.4 Flow Vision

FOS v8.2 provides the following new capabilities and enhancements to Flow Vision.

5.2.2.4.1 Flow Monitoring and IO Insight for FC-NVMe

FOS v8.2 supports Flow Monitoring feature for FC-NVMe devices. Flow Monitor provides the FC frame and I/O Insight metrics for FC-NVM devices connected to Brocade G630 or FC32-64 blade. The FC frame metrics include frame rate, byte count, and throughput. The I/O Insight metrics include FC-NVMe IOPS and FC-NVMe Read/Write response time, completion time, pending I/O, and completed I/O.

5.2.2.4.2 I/O Insight Scalability Enhancement

FOS v8.2 supports I/O Insight metrics with system pre-defined flow **sys_mon_all_fports**. With **sys_mon_all_fports** flow, 2047 sub-flow are supported on X6 directors, and 511 sub-flow are supported for G620/G630 switches.

5.2.2.5 Extension

FOS v8.2 provides FCIP and IP Extension enhancements to Brocade extension platforms.

5.2.2.5.1 Flow Monitor Support for IP Extension

FOS v8.2 supports IP Extension flow monitor to allow users to analyze LAN traffic based on specified flow parameters. Users can create flow based on port, Layer2, Layer3, or Layer4 protocol parameters.

5.2.2.5.2 Static LAG

FOS v8.2 changes static LAG support for the LAN ports to be configured with the new **portchannel** command, which replaces the existing static LAG command **portcfg lag**.

5.2.2.5.3 Neighbor Discovery

FOS v8.2 adds support of Layer2 LLDP for LAN and WAN Ethernet ports in both FCIP and hybrid mode for neighbor discovery.

5.2.2.5.4 IP Extension Hot Code Load (HCL) Enhancement

FOS v8.2 enhance HCL support for IP Extension to run in parallel among multiple sites with Brocade X6 with SX6 blades. FOS v8.2 also minimizes packet loss of non-terminate TCP flows during HCL. In addition, FOS v8.2 adds support of resuming LAN TCP connections independently after HCL instead of waiting for all LAN connections for a VE have failed over successfully.

5.2.2.5.5 DP Error Handling and Recovery

FOS v8.2 adds DP reset for recovering from fatal data path FPGA errors on 7840 and SX6 with BL-1064 RASLOG message indicating FPGA error. FOS v8.2 also adds recovery from backend credit loss on 7840 and SX6 with Link Reset with RASLOG message C3-1014 and C4-1014.

5.2.2.5.6 Adaptive Rate Limiting (ARL) Enhancement

FOS v8.2 enhances ARL control timer handling to increase throughput by 2x in large WAN configuration environments.

5.2.2.5.7 WAN Tool Enhancements

FOS v8.2 enhances WAN Tool with **stop-all** option to stop all active automated WAN Tool (AWT) sessions. WAN Tool output display is enhanced to show all currently running AWT sessions, to reset session statistics with the **--reset** option, and to display detailed information with **--detail** option.

5.2.2.5.8 IP Address and IPSec Policy Configuration Enhancements

FOS v8.2 adds support of modification of IP address and IPSec policy configurations while they are in use. Modification to IP address and IPSec policy in-use are disruptive to existing circuit or tunnel.

5.2.2.5.9 IPSec Certificate Validation

FOS v8.2 fully validates X.509 digital certificate chain for IPSec to ensure imported certificates are trusted. If validation do not pass, certificate import command `secCertMgmt` command will be failed with information on failure reason. A new RASLOG message AUTH-3009 is added to indicate verification failure. Also, a new RASLOG ESM-2328 is added to indicate expiration of a certificate.

5.2.2.6 Zoning

FOS v8.2 provides the following enhancements to zoning.

5.2.2.6.1 Alias Name Support in Target Driven Zoning

FOS v8.2 supports zoning alias names to be used in target driven zoning. Non-principal members of a target driven peer zone can use zoning aliases that have been already created on a Brocade SAN fabric.

5.2.2.6.2 Get Alias Names Support

FOS v8.2 supports FC-GS-8 Get Alias Names (GAN) zone server request command for a specified zone member object WWN to provide a list of alias names associated with the WWN.

5.2.2.6.3 Peer Zone Property Member Display

FOS v8.2 removes listing of the property members in peer zones from the default outputs of zoning commands such as `zonestow`, `cfgshow`, and `alishow`. Property members are displayed only with the `--verbose` option for these commands.

5.2.2.6.4 Auto Zone Creation for Target Driven Zoning

FOS v8.2 automatically creates an `auto_zone_tdz` zone when the `auto_cfg_tdz` is created by Target Driven Zoning. The `auto_zone_tgz` zone does not contain any valid device members. The presence of `auto_zone_tdz` allows a target device to remove the last zone from the effective zone configuration gracefully.

5.2.2.7 Security

FOS v8.2 provides the following enhancements to system security.

5.2.2.7.1 Password Expiration Enhancement

FOS v8.2 enhances password expiration to support setting an immediate expiration for a selected account or all switch accounts with the `passwd --set -expire` command.

5.2.2.7.2 ipfilter Enhancement

FOS v8.2 allows any TCP ports between 0 and 65535 to be specified in an ipfilter rule as deny or accept.

5.2.2.7.3 Authentication Audit Message Enhancement

FOS v8.1.0 adds a new `-logpriauth` option with the `aaaconfig --authspec` option to suppress the authentication failure audit messages of the primary authentication method when there are multiple authentication methods configured. Administrators can use this option to configure the degree of detail in authentication audit messages generated by switch.

5.2.2.7.4 TACACS+ Shared Secret Encryption

FOS v8.1.0 supports encryption option to store the shared secret for TACACS+ configuration. The **-e** option of the **aaaconfig** command is applicable to TACACS+ shared secret configuration. With this option, the shared secret will be encrypted in switch configuration database and in uploaded configuration file.

5.2.2.7.5 seccertmgmt Command

FOS v8.1.0 introduces a new CLI command **seccertmgmt** to provide consistency and uniformity of certificate management for various security protocols. This command is planned as a replacement of the existing **seccertutil** command.

5.2.2.8 RAS

FOS v8.2 includes the following enhancements to RAS functionalities.

5.2.2.8.1 Audit Message

FOS v8.2 adds many new audit log messages for switch operational state and configuration change initiated by administrators through CLI or WebTools.

5.2.2.8.2 SupportSave Enhancement

FOS v8.2 adds the output of **portloginshow -history**, **ldapcfg -show**, **seccertmgmt show**, **seccryptocfg -show** to the supportsave capture for troubleshooting.

5.2.2.8.3 ESRS Support

FOS v8.2 supports remotely manage switch events and collecting support data via REST interface to an EMC Secure Remote Service (ESRS) appliance. FOS supports call home, massive file transfer (MFT), and inventory reporting to ESRS.

5.2.2.8.4 Switch Keep-Alive Status

FOS v8.2 generates a new switch keep-alive status message (SRM-1001) to syslog server at a fixed interval. The interval can be configured by **rasadmin --alive -period** command. The default interval is one hour. Generation of this message is supported on Brocade Gen 6 platforms only.

5.2.2.8.5 Ethernet Management Interface VLAN

FOS v8.2 adds support of a VLAN to be configured with **mgmtvlan** command for Ethernet management interface on fixed-port switches to isolate the traffic to switch management interface.

5.2.2.8.6 Registered Organization Name

FOS v8.2 adds collecting a registered organization name (RON) to record the end user organization name for Brocade's DCX8510 and X6 director class switch. The command **ron** configures and displays the registered organization name.

5.2.2.9 ClearLink Diagnostics (D_Port)

FOS v8.2 supports D_port on Brocade G630 and FC32-64 blade. It enhances D_port with electrical and optical loopback tests with SmartOptics 16G-ER-BR2 and 16G-ER-Dxxx-BR2. It also supports D_port link traffic tests on 32 Gb/s 2 km QSFP.

5.2.2.10 Access Gateway

FOS v8.2 enhances the **agShow** command to display information for cascaded Access Gateway switches.

5.2.2.11 Management Server

FOS v8.2 supports Report Port Speed Capabilities (GFO) command of the FC-LS-3 standard to report the speed capabilities of a responding port.

5.2.2.12 SNMP

FOS v8.2 includes the following enhancements and changes for SNMP.

- New OIDs to list through SNMP the active Telnet sessions on a switch.
- All SNMPv1 and SNMPv3 community strings to be read-only.

5.2.2.13 Miscellaneous Enhancements

5.2.2.13.1 FDMI Vendor Unique Attribute

FOS v8.2 supports certain Vendor Unique Attributes registered through FDMI to be displayed by **fdmishow** command to provide additional device specific information.

5.2.2.13.2 SDDQ Confirmation RASLOG Message

FOS v8.2 generates a new RASLOG message NS-1017 on all switches with devices in the same zone with a slow drain device that the SDDQ action has been completed.

5.2.2.13.3 F-Port Device Update Mode Deprecation

FOS v8.2 deprecates the F-Port Device Update Mode selection under the **configure** command. This configuration is enabled by default in FOS v8.2.

5.2.2.13.4 RLS Probing for NPIV Devices

FOS v8.2 supports **fcprlsprobe** command to probe NPIV devices to fetch the Link Error Status Block values for devices connected through Access Gateways. This probing is not supported when F_Port trunking is enabled.

5.2.2.13.5 portcfgshow Command for fosExec

FOS v8.2 supports **fosexec** command to run the **portcfgshow** CLI on a remote domain.

5.2.2.13.6 X6 ICL Speed Configuration

FOS v8.2 supports configuring ICL ports a fixed speed, either 16 Gb/s or 32 Gb/s on a core blade.

5.2.2.13.7 Message for Port Recovery

FOS v8.2 adds a new RASLOG message (C3-1022) when a port has recovered from an encryption or compression error and is back on line.

5.2.2.13.8 Blade Fault Recovery

FOS v8.2 supports automatic recovery from blade faults. The auto recovery feature is disabled by default. It can be enabled with the **configurechassis** command to change the system.Enable.bladeAutoRecovery setting to yes.

5.2.2.13.9 portcfgeport Command

FOS v8.2 add a new **-passive** option for the portcfgeport command. This allows administrators to set the E_port mode configuration without disabling an online port. The port still needs to be toggled for the configuration to take effect.

5.2.2.13.10 bladevershow Command

FOS v8.2 enhances the **bladevershow** command to display the blade model name and standby CP version.

5.2.3 Deprecated Software Features

The following software features are deprecated beginning with this release.

5.2.3.1 Fibre Channel Routing

FOS v8.2 removes the support of FCR connection to Brocade Network OS fabric.

5.2.3.2 Admin Domain

FOS v8.2 fully removes the Admin Domain feature.

5.3 CLI Changes

The following section lists new, modified, and deprecated commands for this release.

5.3.1 New Commands

The following commands are new in this release.

- fcoe
- lacp
- lldp
- mgmtApp
- portCfgBreakout
- portCfgFlexport
- portchannel
- portImpair
- ron

5.3.2 Modified Commands

Refer to the Modified Commands section in the *Brocade Fabric OS Command Reference* supporting Fabric OS v8.2.0.

5.3.3 Deprecated Commands

The *Brocade Fabric OS Command Reference Manual* documents all FOS commands that are officially supported. Any commands not listed in the Command Reference for a specific release are not supported and may be subject to removal without notification. Refer to the Deprecated Commands section in the *Brocade Fabric OS Command Reference* supporting Fabric OS v8.2.0.

5.4 Security Vulnerability Fixes

This section lists the Common Vulnerabilities and Exposures (CVEs) fixes that are added in FOS v8.2.0.

- CVE-2016-3115: Multiple CRLF injection vulnerabilities in session.c in sshd in OpenSSH before 7.2p2 allow remote authenticated users to bypass intended shell-command restrictions via crafted X11 forwarding data, related to the (1) do_authenticated1 and (2) session_x11_req functions.
- CVE-2017-3735: While parsing an IPAddressFamily extension in an X.509 certificate, it is possible to do a one-byte overread. This would result in an incorrect text display of the certificate. This bug has been present since 2006 and is present in all versions of OpenSSL before 1.0.2m and 1.1.0g.
- CVE-2016-8858: The kex_input_kexinit function in kex.c in OpenSSH 6.x and 7.x through 7.3 allows remote attackers to cause a denial of service (memory consumption) by sending many duplicate KEXINIT requests.
- CVE-2014-2653: The verify_host_key function in sshconnect.c in the client in OpenSSH 6.6 and earlier allows remote servers to trigger the skipping of SSHFP DNS RR checking by presenting an unacceptable HostCertificate.
- CVE-2016-10011: authfile.c in sshd in OpenSSH before 7.4 does not properly consider the effects of realloc on buffer contents, which might allow local users to obtain sensitive private-key information by leveraging access to a privilege-separated child process.

5.5 Supported Standards and RFCs

This software conforms to the Fibre Channel standards in a manner consistent with accepted engineering practices and procedures. In certain cases, Brocade might add proprietary supplemental functions to those specified in the standards. For a list of FC standards conformance, visit the following Brocade Web site: <http://www.brocade.com/sanstandards>.

Chapter 6: Software License Support

6.1 Optionally Licensed Software

Fabric OS 8.2 includes all basic switch and fabric support software, as well as optionally-licensed software enabled using license keys.

Optionally-licensed features include:

Brocade Ports on Demand — Allows customers to instantly scale the fabric by provisioning additional SFP ports via license key upgrade. (Applies to select models of switches).

Brocade Q-Flex Ports on Demand — Allows customers to further scale the fabric and increase flexibility by provisioning additional 4x32G QSFP ports via license key upgrade. Applies to Brocade G620 only.

Brocade Extended Fabrics — Provides greater than 10 km of switched fabric connectivity at full bandwidth over long distances (depending on platform this can be up to 3000 km).

Brocade ISL Trunking — Provides the ability to aggregate multiple physical links into one logical link for enhanced network performance and fault tolerance. Also includes Access Gateway ISL Trunking on those products that support Access Gateway deployment.

Brocade Fabric Vision — Enables support for MAPS (Monitoring and Alerting Policy Suite), Flow Vision, and ClearLink (D_Port) when connecting to non-Brocade devices. MAPS enables rules-based monitoring and alerting capabilities, provides comprehensive dashboards to quickly troubleshoot problems in Brocade SAN environments. Flow Vision enables host to LUN flow monitoring, application flow mirroring for non-disruptive capture and deeper analysis, and test traffic flow generation function for SAN infrastructure validation. D_Port to non-Brocade devices support allows extensive diagnostic testing of links to devices other than Brocade switches and adapters.

NOTE On Brocade G620, G630, Brocade X6-8, and Brocade X6-4 platforms, this license enables the use of IO Insight capability. The license itself will be identified as “Fabric Vision and IO Insight” license on these platforms.

FICON Management Server — Also known as “CUP” (Control Unit Port), this enables host control of switches in mainframe environments.

Integrated Routing — This license allows any Fibre Channel port in a DCX 8510-8, DCX 8510-4, Brocade 6510, Brocade 6520, Brocade 7840, or Brocade G620 to be configured as an EX_Port supporting Fibre Channel Routing. This eliminates the need to add an FR4-18i blade or use a Brocade 7500 for FCR purposes, and also provides either quadruple or octuple the bandwidth for each FCR connection (when connected to another 16 Gb/s or 32 Gb/s-capable port).

Integrated Routing Ports on Demand — This license allows any Fibre Channel port in a Brocade G630, X6-8 or Brocade X6-4 to be configured as an EX_Port supporting Fibre Channel Routing. The maximum number of EX_Ports supported per platform is provided in the license. This eliminates the need to add an FR4-18i blade or use a Brocade 7500 for FCR purposes, and also provides octuple the bandwidth for each FCR connection (when connected to another 32 Gb/s-capable port).

Advanced Extension — This license enables two advanced extension features: FCIP Trunking and Adaptive Rate Limiting. The FCIP Trunking feature allows multiple IP source and destination address pairs (defined as FCIP Circuits) via multiple 1GbE or 10GbE interfaces to provide a high bandwidth FCIP tunnel and failover resiliency. In addition, each FCIP circuit supports four QoS classes (Class-F, High, Medium and Low Priority), each as a TCP connection. The Adaptive Rate Limiting feature provides a minimum bandwidth guarantee for each tunnel with full utilization of the available network bandwidth without impacting throughput performance under high traffic load. This license is available on the DCX 8510-8/DCX 8510-4 for the FX8-24 on an individual slot basis.

10GbE FCIP/10G Fibre Channel — This license enables the two 10GbE ports on the FX8-24 and/or the 10G FC capability on FC16-xx blade ports supported on DCX 8510 platforms except for the FC16-64 blade. On the Brocade 6510, Brocade 6520 this license enables 10G FC ports. This license is not applicable to the Brocade 7840, Brocade G620, or Brocade X6 platforms.

On FX8-24

With this license installed and assigned to a slot with an FX8-24 blade, two additional operating modes (in addition to 10x1GbE ports mode) can be selected:

- 10x1GbE ports and 1x10GbE port, or
- 2x10GbE ports

On FC16-xx

- Enables 10G FC capability on an FC16-xx blade in a slot that has this license.

On Brocade 6510, Brocade 6520

- Enables 10G FC capability on Brocade 6510 and Brocade 6520 switches.

This license is available on the DCX 8510-8 and DCX 8510-4 on an individual slot basis.

Advanced FICON Acceleration — This licensed feature uses specialized data management techniques and automated intelligence to accelerate FICON tape read and write and IBM Global Mirror data replication operations over distance, while maintaining the integrity of command and acknowledgement sequences. This license is available on the Brocade 7840 and the DCX 8510-8 and DCX 8510-4 for the FX8-24 on an individual slot basis.

ICL POD License — This license activates ICL ports on DCX 8510 or X6 platform core blades. An ICL license must be installed on the Director platforms at both ends of the ICL connection.

On Brocade DCX8510-8 and X6-8

The 1st ICL POD license enables 16 (half of the total) UltraScale ICL QSFP ports on DCX 8510-8 or X6-8 Directors, enabling eight ICL ports on each core blade. These are QSFP port number 0, 1, 2, 3, 4, 5, 6, and 7 on DCX8510-8; while on X6-8, the QSFP port numbers are 0, 1, 2, 3, 8, 9, 10, and 11. The 2nd ICL POD license enables the remaining 16 UltraScale ICL QSFP ports on the Directors. These are QSFP port number 8, 9, 10, 11, 12, 13, 14, and 15 on each core blade of DCX8510-8; while on X6-8, these are QSFP port number 4, 5, 6, 7, 12, 13, 14, and 15 on each core blade.

Note that the trunk boundaries are different between CR32-8 core blades on X6-8 and CR16-8 core blades on DCX8510-8.

On Brocade DCX8510-4 and X6-4

ICL POD licenses are different between X6-4 and DCX8510-4 Directors. On an X6-4, the 1st ICL POD license enables eight (half of the total) UltraScale ICL QSFP ports on the Director, enabling four ICL ports on each core blade, which are QSFP port number 0, 1, 4, and 5. The 2nd ICL POD license on X6-4 enables the remaining eight UltraScale ICL QSFP ports on the Director, which are QSFP port number 2, 3, 6, and 7 on each core blade. On a DCX8510-4, a single ICL POD license enables all 16 UltraScale ICL QSFP ports on the Director.

Enterprise ICL (EICL) License — The EICL license is required on a Brocade DCX 8510 chassis when that chassis is connected to four or more Brocade DCX 8510 chassis via ICLs. This license is not applicable to X6 Directors.

This license requirement does not depend upon the total number of DCX 8510 chassis that exist in a fabric, but only on the number of other chassis connected to a DCX 8510 via ICLs. This license is recognized/displayed when operating with FOS v7.0.1 and enforced by FOS v7.1.0 or later.

NOTE The EICL license supports a maximum of nine (9) DCX 8510 chassis connected in a full mesh topology or up to twelve (12) DCX 8510 chassis connected in a core-edge topology. Refer to the Brocade SAN Scalability Guidelines document for additional information.

WAN Rate Upgrade 1 License — The WAN Rate Upgrade 1 license provides the additional WAN throughput up to 10 Gb/s on a Brocade 7840. The base configuration for a Brocade 7840 without this license provides WAN throughput up to 5 Gb/s.

WAN Rate Upgrade 2 License — The WAN Rate Upgrade 2 license provides unlimited WAN throughput (up to the hardware limit) on a Brocade 7840. WAN Rate Upgrade 2 licenses also enable the use of two 40GbE ports on a Brocade 7840. The 40GbE ports cannot be configured without the WAN Rate Upgrade 2 license. A WAN Rate Upgrade 1 license must be installed on a Brocade 7840 before a WAN Rate Upgrade 2 license is installed. A WAN Rate Upgrade 1 license cannot be removed before the WAN Rate Upgrade 2 license has been removed.

NOTE The WAN Rate Upgrade 1 and WAN Rate Upgrade 2 licenses apply only to Brocade 7840 platforms. They control the aggregate bandwidth for all tunnels on that Brocade 7840. The entire capacity controlled by the licenses can be assigned to a single tunnel, or a portion of the capacity can be assigned to multiple tunnels. The total bandwidth aggregated for all tunnels should not exceed the limits established by the licenses.

6.2 Temporary License Support

The following licenses are available in Fabric OS 8.2 as either Universal Temporary or regular temporary licenses:

- Fabric (E_Port) license
- Extended Fabric license
- Trunking license
- High Performance Extension license
- Advanced Performance Monitoring license
- Fabric Watch license
- Integrated Routing license
- Integrated Routing Ports on Demand license
- Advanced Extension license
- Advanced FICON Acceleration license
- 10GbE FCIP/10GFibre Channel license
- FICON Management Server (CUP)
- Enterprise ICL license
- Fabric Vision license
- WAN Rate Upgrade 1 license
- WAN Rate Upgrade 2 license

NOTE Temporary Licenses for features available on a per-slot basis enable the feature for any and all slots in the chassis.

Temporary and Universal Temporary licenses have durations and expiration dates established in the licenses themselves. FOS will accept up to two temporary licenses and a single Universal license on a unit. Universal Temporary license keys can only be installed once on a particular switch, but can be applied to as many switches as desired. Temporary use duration (the length of time the feature will be enabled on a switch) is provided with the license key. All Universal Temporary license keys have an expiration date upon which the license can no longer be installed on any unit.

Chapter 7: Hardware Support

7.1 Supported Devices

The following devices are supported in this release:

- G610, G620, G630, X6-8, X6-4
- 6505, 6510, 6520, DCX8510-8, DCX8510-4
- 6542, 6543, 6545, 6546, 6547, 6548, M6505, 6558
- 7840

7.2 Supported Blades

7.2.1 DCX 8510-8/DCX 8510-4 Blade Support

Fabric OS v8.2.0 software is fully qualified and supports the blades for the DCX8510-8 and DCX8510-4 noted in the table below:

Blades	OS support
FC16-32, FC16-48 16G FC blades	FOS v7.0 or later.
FC16-64 blade ^{1, 2}	FOS v7.3 or later.
FC8-64 64 port 8Gbit port blade	Not supported.
FC8-32E, FC8-48E	Not supported.
FCIP/FC Router blade (FR4-18i)	Not supported.
Virtualization/Application Blade (FA4-18)	Not supported.
Encryption Blade (FS8-18)	Not supported.
Extension Blade (FX8-24)	FOS v7.0 or later. Up to a maximum of 4 blades of this type.
FCoE/L2 CEE blade FCOE10-24	Not supported.

¹ 8510 core blade QSFPs, part numbers 57-1000267-01 and 57-0000090-01, are not supported in FC16-64. The QSFPs supported in FC16-64, part number 57-1000294-02, is also supported on 8510 core blades.

² E_port connections on FC16-64 blade have the following restriction: connecting a QSFP port between a FC16-64 blade and an ICL QSFP port on a core blade is not supported.

7.2.2 X6-8/X6-4 Blade Support

Fabric OS v8.2.0 software is fully qualified and supports the blades for the X6-8 and X6-4 noted in the table below. None of the legacy blades (16G or lower speed) are supported in the Gen 6 chassis.

Blades	OS support
FC32-48 32G FC blade	FOS v8.0.1 or later.
SX6 Gen 6 Distance Extension Blade	FOS v8.0.1 or later. Up to maximum of 4 blades of this type.
FC32-64 32G FC/FCoE blade	FOS v8.2.0 or later Maximum of 2 blades of this type is supported when 4 SX6 blades is present in the same chassis

NOTE The QSFP supported in FC16-64, part number 57-1000294-02, is also supported on X6 core blades with the condition that the port speed must be configured at fixed 16 Gb/s. Otherwise, the optics will be faulted.

7.3 Supported Power Supplies

7.3.1 Brocade G620 Power Supplies

The following table lists the power supplies for Brocade G620 supported in this release:

Part number	Description	Compatible devices
XBRG250WPSAC-F	Power supply and fan assembly, nonport-side air exhaust	Brocade G620
XBRG250WPSAC-R	Power supply and fan assembly, nonport-side air intake	Brocade G620

7.3.2 Brocade G630 Power Supplies

The following table lists the power supplies for Brocade G630 supported in this release:

Part number	Description	Compatible devices
XBR-1500W PSAC-F	Power supply and fan assembly, nonport-side air exhaust	Brocade G630
XBR-1500W PSAC-R	Power supply and fan assembly, nonport-side air intake	Brocade G630

7.3.3 DCX8510-8 Power Supply Requirements

7.3.3.1 Typical Power Supply Requirements Guidelines for Blades in DCX 8510-8 Backbones

(For specific calculation of power draw with different blade combinations, refer to Appendix A: Power Specifications in the *Brocade DCX 8510-8 Backbone Hardware Reference Manual*.)

Configured Number of Ports	Blades	Type of Blade	DCX 8510-8 @110 VAC (Redundant configurations)	DCX 8510-8 @200-240 VAC (Redundant configurations)	Comments
Any combination of 8-Gb or 16-Gb ports with QSFP ICLs	FC16-32, FC16-64	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ³ Power Supplies
256 16-Gb ports + QSFP ICLs	FC16-32, FC16-48 (Maximum of fully populated FC16-32 blades), FC16-64	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies Max 8 FC16-32 port blades
192 16-Gb Ports & max 2 intelligent blades (FX8-24) with QSFP ICLs	FC16-32, FC16-48, FC16-64, FX8-24	Port / Intelligent Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies Max four FC16-48 port blades and max 2 Intelligent blades
336 16-Gb ports + QSFP ICLs	FC16-48 (Maximum of seven FC16-48 blades, with one empty port blade slot)	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies Max 7 FC16-48 port blades
384 16-Gb ports + QSFP ICLs	FC16-48	Port Blade	Not Supported	4 Power Supplies	200-240 VAC: For DCX 8510-8, four (2+2) ¹ 220 VAC Power Supplies are required
384 16-Gb ports + QSFP ICLs	FC16-64	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies
Any combination of 8-Gb or 16-Gb ports and intelligent blades with QSFP ICLs	FC16-32, FC16-48, FX8-24	Intelligent Blade / Combination	Dependent on configuration. Requires power calculation for specific configuration	2 or 4 Power Supplies, depending on configuration	For DCX 8510-8, four (2+2) ¹ 220 VAC Power Supplies are required when any special purpose blade are installed
512 16-Gb ports	FC16-64	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies
512 16-Gb ports + QSFP ICLs	FC16-64	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies

³ When 2+2 power supply combination is used, the users are advised to configure the MAPS setting for switch Marginal State to be one Bad Power Supply.

7.3.4 DCX8510-4 Power Supply Requirements

7.3.4.1 Typical Power Supply Requirements Guidelines for Blades in DCX 8510-4 Backbones

(For specific calculation of power draw with different blade combinations, please refer to Appendix A: Power Specifications in the *Brocade DCX 8510-4 Backbone Hardware Reference Manual*.)

Configured Number of Ports	Blades	Type of Blade	DCX 8510-4 @110 VAC (Redundant configurations)	DCX 8510-4 @200-240 VAC (Redundant configurations)	Comments
96 ports max with QSFP ICLs	FC16-32	Port Blade	2 Power Supplies	2 Power Supplies	1+1 redundancy with 110 or 200-240 VAC power supplies
Any combination of 8-Gb or 16-Gb ports and intelligent blades with QSFP ICLs	FC16-32, FC16-48, FC16-64, FX8-24	Intelligent Blade / Combination	Not Supported	2 Power Supplies	200-240 VAC: 1+1 Power Supplies

7.3.5 Brocade X6 Power Supplies

The following table lists the power supplies for Brocade X6 supported in this release:

Part number	Description	Compatible Devices
XBR-X6-RACNPIPSU-0104	AC power supply and fan assembly, nonport-side air intake	Brocade X6
XBR-X6-RACNPEPSU-0104	AC power supply and fan assembly, nonport-side air exhaust	Brocade X6
XBR-X6-HVNPIPSU-0104	High voltage AC/DC power supply and fan assembly, nonport-side air intake	Brocade X6
XBR-X6-HVNPEPSU-0104	High voltage AC/DC power supply and fan assembly, nonport-side air exhaust	Brocade X6

7.3.6 X6-8 Power Supply Requirements

7.3.6.1 Typical Power Supply Requirements Guidelines for Blades in X6-8 Directors

(For specific calculation of power draw with different blade combinations, please refer to Power consumption section in the *Brocade X6-8 Director Hardware Installation Guide*.)

Configured Number of Ports	Blades	Type of Blade	X6-8 @100-120 VAC (Redundant configurations) ⁴	X6-8 @200-240 VAC (Redundant configurations) ¹
144 32-Gb/s ports + QSFP ICLs	FC32-48	Port Blade	3 or 4 Power Supplies (2+1 or 2+2 redundancy)	2 Power Supplies (1+1 redundancy)
384 32-Gb/s ports + QSFP ICLs	FC32-48	Port Blade	Not Supported	3 or 4 Power Supplies (2+1 or 2+2 redundancy)
Any combination of 32-Gb/s ports and Extension blades with QSFP ICLs	FC32-48 FC32-64 SX6	Port Blade Extension Blade	Not Supported	3 or 4 Power Supplies (2+1 or 2+2 redundancy)

7.3.7 X6-4 Power Supply Requirements

7.3.7.1 Typical Power Supply Requirements Guidelines for Blades in X6-4 Directors

(For specific calculation of power draw with different blade combinations, please refer to Power consumption section in the *Brocade X6-4 Director Hardware Installation Guide*.)

Configured Number of Ports	Blades	Type of Blade	X6-4 @100-120 VAC (Redundant configurations) ⁵	X6-4 @200-240 VAC (Redundant configurations) ²
Any combination of 32-Gb/s ports and Extension blades with QSFP ICLs	FC32-48 FC32-64 SX6	Port Blade Extension Blade	Not Supported	2 Power Supplies (1+1 redundancy)

7.3.8 Supported Optics

For a list of supported fiber-optic transceivers that are available from Brocade, refer to the latest version of the Brocade Optics Family Data Sheet available online at www.brocade.com.

⁴ For N+1 or N+N redundancy N PSUs must be available for system to support the load. In other words, failure of up to 1 PSU in N+1 configuration or N in N+N configuration will not impact system's operation.

⁵ For 1+1 redundancy 1 PSU must be available for system to support the load. In other words, failure of up to 1 PSU will not impact system's operation.

Chapter 8: Software Upgrades and Downgrades

8.1 Image Filenames

Download the following images from www.broadcom.com.

Image filename	Description
v8.2.0b.zip	Fabric OS v8.2.0b for Windows
v8.2.0b_tar.gz	Fabric OS v8.2.0b for Linux
v8.2.0b.md5	Fabric OS v8.2.0b Checksum
v8.2.0b_all_mibs.tar.gz	Fabric OS v8.2.0b MIBs
v8.2.0b_releasenotes_v1.0.pdf	Fabric OS v8.2.0b Release Notes v1.0

8.2 Migration Path

This section contains important details to consider before migrating to or from this FOS release.

8.2.1 Migrating from FOS v8.1

Any Brocade platform running any FOS v8.1.0a or later can be non-disruptively upgraded to FOS v8.2.0b.

NOTE Non-disruptive firmware upgrade from FOS v8.1.0 to FOS v8.2.0b on Brocade G610 is not supported.

8.2.2 Migrating from FOS v8.0

Any Brocade platform and supported blades in the **DCX 8510-8/DCX 8510-4 blade support** table and **X6-8/X6-4 blade support** table running any FOS v8.0 firmware must be upgraded to FOS v8.1.x firmware before it can be non-disruptively upgraded to FOS v8.2.0b.

8.3 Upgrade/downgrade Considerations

Any firmware activation on a DCX 8510-8 or DCX 8510-4 with a FX8-24 blade installed will disrupt I/O traffic on the FCIP links.

Disruptive upgrades to Fabric OS v8.2.0b are allowed and supported from FOS v8.0.x (up to a two-level migration) using the optional “-s” parameter with the *firmwaredownload* command.

Chapter 9: Limitations and Restrictions

9.1 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. For current scalability limits for Fabric OS, refer to the Brocade SAN Scalability Guidelines document, available at www.broadcom.com.

9.2 Compatibility/interoperability

9.2.1 Brocade Network Advisor Compatibility

Brocade Network Advisor is available with flexible packaging and licensing options for a wide range of network deployments and for future network expansion. Brocade Network Advisor 14.4.1 is available in the following editions:

- SAN-only
- IP-only
- SAN+IP

For SAN Management, Network Advisor 14.4.1 is available in three editions:

- **Network Advisor Professional:** a fabric management application that is ideally suited for small-size businesses that need a lightweight management product to manage their smaller fabrics. It manages two FOS fabric at a time and up to 300 switch ports. It provides support for Brocade FC switches, Brocade HBAs / CNAs, and Fibre Channel over Ethernet (FCoE) switches.
- **Network Advisor Professional Plus:** a SAN management application designed for medium-size businesses or departmental SANs for managing up to thirty-six physical or virtual fabrics (FOS) and up to 2,560 switch ports. It supports Brocade Director products (X6-4, DCX 8510-4/DCX-4S, 48Ks, etc.), FC switches, Fibre Channel Over IP (FCIP) switches, Fibre Channel Routing (FCR) switches/ Integrated Routing (IR) capabilities, Fibre Channel over Ethernet (FCoE) / DCB switches, and QLogic and Emulex HBAs / CNAs.
- **Network Advisor Enterprise:** a management application designed for enterprise-class SANs for managing up to one hundred physical or virtual fabrics and up to 15,000 switch ports. Network Advisor SAN Enterprise supports all the hardware platforms and features that Network Advisor Professional Plus supports, and adds support for the Brocade Directors (X6-8, DCX 8510-8/DCX) and Fiber Connectivity (FICON) capabilities.

More details about Network Advisor's new enhancements can be found in the Network Advisor 14.4.1 Release Notes, Network Advisor 14.4.0 User Guide, and Network Advisor 14.4.1 Installation, Migration, & Transition Guides.

NOTE

- Brocade Network Advisor 14.4.1 or later is required to manage switches running Fabric OS 8.2.0 or later.
- The Brocade Network Advisor seed switch should always have the highest FOS version used in the fabric.

9.2.2 WebTools Compatibility

Fabric OS 8.2.0 is qualified and supported with Oracle Java version 8 update 152. Please refer to the "Other Important Notes and Recommendations" section for more details.

9.2.3 SMI Compatibility

It is important to note that host SMI-S agents cannot be used to manage switches running Fabric OS 8.2.0. If you want to manage a switch running Fabric OS 8.2.0 using the SMI-S interface, you must use Brocade Network Advisor's integrated SMI agent.

9.2.4 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. Brocade recommends using 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 prior to installing on your switch. Use only Fabric OS versions that are supported by the provider.
- For a list of the effective end-of-life dates for all versions of Fabric OS, visit the following Brocade website: <https://www.broadcom.com/support/fibre-channel-networking/eol>.

Supported Products	Fabric OS Interoperability
4100, 4900, 7500, 7500e, 5000, 200E, 48K Brocade 4012, 4016, 4018, 4020, 4024, 4424	No support for interoperability in the same fabric or Access Gateway connection — must use FCR
Brocade 5410, 5480, 5424, 5430, 5431, 5432, 5450, 5460, 5470, NC-5480, VA-40FC	v7.3.1 or later
Brocade DCX, DCX-4S, 300, 5100, 5300	v7.3.1 or later
Brocade DCX with FS8-18 blade(s), Brocade Encryption Switch	v7.3.1 or later
Brocade 7800, DCX and DCX-4S with FCOE10-24 or FX8-24 blades	v7.3.1 or later
Brocade 8000	v7.1.2 or later ⁶
Brocade DCX/DCX-4S with FA4-18 blade(s)	No support for interoperability in the same fabric — must use FCR ⁷
Brocade DCX 8510-8/DCX 8510-4	FOS v7.3.1 or later
Brocade DCX 8510-8/DCX 8510-4 with FC16-64 blade	FOS v7.3.1 or later
Brocade DCX 8510-8 with FCOE10-24 blade	FOS v7.3.1 or later
Brocade 6510, 6505, 6530, 7840	FOS v7.3.1 or later
6548, 6547, M6505, 6545, 6546	FOS v7.3.1 or later
6543	FOS v7.4.1 or later
6558	FOS v8.0.1 or later ⁸
Brocade G610	FOS v8.1.0 or later
Brocade G620	FOS v8.0.0 or later

⁶ Brocade 8000 is not supported with Fabric OS v7.2.x or later.

⁷ FA4-18 is not supported in a DCX/DCX-4S that is running Fabric OS v7.0 or later.

⁸ Support merged from embedded FOS releases.

Brocade G630	FOS v8.2.0 or later
Brocade X6-8/X6-4	FOS v8.0.1 or later
Brocade X6-8/X6-4 with FC32-48 blade or SX6 blade	FOS v8.0.1 or later
Brocade X6-8/X6-4 with FC32-64 blade	FOS v8.2.0 or later
Brocade 6542	FOS v8.0.2 or later ¹
48000 with FA4-18 blade(s), Brocade 7600	Not Supported
Mi10k, M6140 (McDATA Fabric Mode and Open Fabric Mode)	Not Supported

Multi-Protocol Router Interoperability	
Brocade 7500, 7500e	Not Supported
McDATA SANRouters 1620 and 2640	Not Supported

9.2.5 SNMP Support

Fabric OS 8.2.0 documents the supported MIBs in the *MIB Reference Guide* supporting Fabric OS 8.2.0. For information about SNMP support in Fabric Operating System (FOS) and how to use MIBs, refer to the *Fabric OS Administrator's Guide* supporting Fabric OS 8.2.0.

9.2.5.1 Obtaining the MIBs

You can download the MIB files required for this release from the downloads area of the MyBrocade site. To download the Brocade-specific MIBs from the Brocade Technical Support website, you must have a user name and password. Use the following steps to obtain the MIBs you want.

1. On your web browser, go to <http://my.brocade.com>.
2. Login with your user name and password.
3. Under the **Support** tab, click **Software & Driver Downloads**.
4. On the Software & Driver Downloads page, select **All Operating Systems** from the Browse drop-down list.
5. Select **Fabric Operating System (FOS)**, and then navigate to the release.
6. Navigate to the link for the MIBs package and either open the file or save it to disk.

NOTE Distribution of standard MIBs has been stopped. Download the required standard MIBs from the <http://www.oidview.com/> or <http://www.mibdepot.com/> website.

9.2.6 REST API Support

Fabric OS 8.2.0 documents the support REST API functions in the Fabric OS REST API Reference supporting Fabric OS 8.2.0.

9.2.6.1 Obtaining YANG files

YANG is a standard data modeling language that defines the data sent over the FOS REST API. Each FOS REST API module is defined in a YANG module file with the .yang name extension. To download the Brocade FOS-specific YANG files from the Brocade Technical Support website, you must have a user name and password. Use the following steps to obtain the YANG files you want.

1. On your web browser, go to <http://my.brocade.com>.
2. Login with your user name and password.
3. Under the **Support** tab, click **Software & Driver Downloads**.
4. On the **Software & Driver Downloads** page, select **All Operating Systems** from the Browse drop-down list.
5. Select **Fabric Operating System (FOS)**, and then navigate to the release.
6. Navigate to the link for the Fabric OS package file, either for Windows or for Linux, click and save it to disk.
7. 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 file to obtain individual YANG module files.

9.3 Important Notes

9.3.1 FCoE

- Following topologies for FCoE on FC32-64 are not supported with FOS v8.2.0:
 - Cisco UCS server directly connect to FC32-64 without Fabric Interconnect module.
 - Cisco UCS server with Fabric Interconnect connect to FC32-64 via Nexus 5000 series switch in between. Neither running FCoE NPV mode nor L2 switching mode on Nexus 5000 is supported.

9.3.2 FC-NVMe

- FOS 8.2.0 does not support FC-NVMe over FCIP extension tunnels.
- FOS 8.2.0 does not support FC-NVMe over FCR configurations.

9.3.3 In-flight Encryption and Compression

- FOS 8.2.0 supports in-flight encryption & compression on Brocade 6510, 6520, DCX 8510, G620, and FC32-48 port blade. It does not support in-flight encryption or compression on Brocade G630 or FC32-64 blade. In-flight encryption & compression on Brocade 630 is supported with FOS v8.2.0a or later.
- To enable in-flight encryption on G620, SFP port 44 – 47 must be disabled. If port 44 – 47 have been configured for in-flight compression with FOS v8.1.x or earlier, firmware upgrade to FOS v8.2.0 or later will be blocked until in-flight compression is moved to other ports in the switch.
- If in-flight compression is enabled for any ports on a G620 running FOS v8.1.x or earlier, firmware upgrade to FOS v8.2.0 will fail to complete. Upgrade to FOS v8.2.0a or later instead.

9.3.4 VM Insight

- VM Insight is supported on Brocade G610, G620, G630, and X6 running FOS v8.1.0 and later. Brocade Gen 5 Fibre Channel platforms supports frames with the optional FC Application Header for VM Insight to pass through. Brocade 7840 and SX6 running FOS v8.1.0 supports the Application Header in FCP emulating tunnel. FCP emulating tunnel or FICON emulation are not supported in other extension platforms or earlier firmware. Non-emulating tunnel on extension platforms supports pass through of Application Header.
- VM Insight is not supported across FCR but frames with Application Header may traverse through FCR.
- FOS v8.2.0 supports VM performance metrics in flows on ingress F_Port only. Brocade G620 and G610 supports FC metrics. Brocade X6 Directors supports both FC and SCSI IO metrics.
- Legacy static flow does not monitor SCSI IOPS statistics for frames with Application Header.
- Duplicate sub-flow entries are displayed after a switch HA failover or multiple restart of VM traffic without clearing status. The workaround is to use “flow --reset sys_mon_all_vms” command reset.
- FOS v8.2.0 does not support VM Insight for FC-NVMe traffics.

9.3.5 ClearLink Diagnostics (D_Port)

- Fabric OS 8.2.0 supports D_Port tests between two Brocade switches and between Brocade switches and Gen 5 (16 Gb/s) and Gen 6 (32 Gb/s) Fibre Channel Adapters from QLogic and Emulex. Following are specific adapter models and driver versions tested by Brocade with Fabric OS v8.2.0 for ClearLink.⁹

	Emulex 16G Adapter	Emulex 32G Adapter	QLogic 16G Adapter	QLogic 32G Adapter
Adapter Model	LPe16002B-M6	LPe32002-M2	QLE2672	QLE2742
Adapter Firmware	11.4.204.20	11.4.142.23	v8.05.44	v8.05.44
Adapter Driver	11.4.142.23	11.4.204.8	STOR Miniport 9.1.17.21	STOR Miniport 9.1.17.21

- The D_Port long duration test can only be run on one port at a time.
- Long-duration electrical loopback tests are not supported.
- D_Port test on 4x32GFC breakout QSFP optics (p/n 57-1000351-01) and 128GFC non-breakout QSFP (part number 57-1000331-01) have the following restrictions:
 - D_Port for these modules in X6 ICL ports are supported without electric or optical loopback tests
 - D_Port on any user port connected by a QSFP requires all 4 user ports within the same QSFP to be in D_Port mode
 - D_Port test requires all user ports in a QSFP to be in the same logical switch
 - Dynamic or On-Demand D_Port is not supported on the user ports in these modules
- If D_Port test between a Brocade switch and an Emulex adapter is stopped shortly after the test has started, the adapter firmware may display “No FC Cables connecting the port to switch”. The workaround is to restart D_Port test to completion.

9.3.6 Forward Error Correction (FEC)

- FEC is mandatory with Gen 6 Fibre Channel operating at 32 Gb/s. This means that the **portcfgfec** command only applies to ports running at 16 Gb/s or 10 Gb/s.
- FEC capability is not supported with all DWDM links. This means that FEC may need to be disabled on 16 Gb/s or 10 Gb/s ports when using DWDM links with some vendors. This is done using the **portcfgfec** command. Failure to disable FEC on these DWDM links may result in link failure during port bring up. Refer to the *Brocade Fabric OS 8.x Compatibility Matrix* for supported DWDM equipment and restrictions on FEC use.

9.3.7 Access Gateway

- The 32G links with 4x32G QSFP ports (port 48–port 63) do not have default mappings. These ports will be disabled by default when a Brocade G620 is enabled for Access Gateway mode or the configuration set to default.
- Attempts to remove failover port mapping from N-Port number 0 on an Access Gateway fails. This problem does not exist on other N-Port numbers.

⁹ Adapter firmware or driver versions that are later than the ones listed in the table may not work.

9.3.8 Ingress Rate Limiting

- Fabric OS 8.1.0 does not support ingress rate limiting on Brocade Gen 6 (G610, G620, G630, or X6) platforms.

9.3.9 Ethernet Management Interface

- Enabling IPsec on management interface is not supported on Brocade G620 switches. The **ipsecconfig** command is blocked to prevent enabling the configuration.
- The recommended interface speed configuration for a Brocade G620 is 1G auto-negotiate. If a G620 is configured for 10/100M Gb/s forced-speed and fails to establish a link, Brocade recommends using a cross-over cable.
- If a Brocade switch management interface is running at 10 Mbit/sec, certain FOS operations such as **firmwaredownload** may fail.
- The 10 Gb/s management interface on CPX6 blades is not supported.
- The half-duplex mode for the X6 Director and Brocade 7840 is not supported and is blocked.
- External default route connectivity to the private IPv4 Class B network of 172.16.0.0/16 is unreachable over the management interface due to the existence of a more specific route from an internal Virtual Fabric ID address of 172.16.0.61/16 for FID 128. The recovery is to delete or modify the external default route to a more specific address. The Virtual Fabric address will no longer block the management access to the IPv4 Class B address range of 172.16.0.0/16.

9.3.10 Extension

- IP Extension (IPEXT) between a Brocade 7840 and a SX6 blade is supported only if the 7840 is running FOS v8.0.1 or later. FCIP extension between a Brocade 7840 with FOS v7.4 and a SX6 blade with FOS v8.0.1 or later is supported. The following table documents the combinations.

Site1 Switch/Blade	Site1 Firmware	Site2 Switch/Blade	Site2 Firmware	Supported
7840	8.0.1 or later	7840	7.4.x or later	Both FCIP and IPEXT traffic
SX6	8.0.1 or later	7840	7.4.x	FCIP traffic but not IPEXT traffic
SX6	8.0.1 or later	7840	8.0.1 or later	Both FCIP and IPEXT traffic
SX6	8.0.1 or later	SX6	8.0.1 or later	Both FCIP and IPEXT traffic

- It is recommended that administrators not to configure the HA VE pair (VE16, VE26), (VE17, VE27), (VE18, VE28), etc. where each VE in the pair is in a different LS with different traffic policy (port based routing and exchange based routing). The workaround is to configure different HA VE pairs such as (VE16, VE27), (VE17, VE26), etc. when putting each VE pair in different LS with different traffic policy.
- When Non-Terminate TCP (NT-TCP) is enabled on Traffic Control Lists (TCLs) and a firmware downgrade to FOS v7.4.1d is attempted on Brocade 7840, the downgrade will be blocked. Users must remove NT-TCP from the TCLs with NT-TCP enabled in order to downgrade the firmware. After firmware is downgraded to FOS v7.4.1d, users can re-enable the NT-TCP flag.
- Non-disruptive firmware download for IP extension supports non-disruption to IP traffic for all terminate TCP connections. UDP and non-terminate TCP traffic may be disrupted during HCL.
 - When downgrading from FOS v8.1.0a to an earlier release during HCL, the following message may be seen. This message can be ignored and has no functional impact.
 - [ESM-1100], 343, SLOT 1 FID 128, WARNING, switch0, esm_cfg_ip.c:2226 Could not get PMTU info from cfgdb
- If a 7840 or X6 director with SX6 blade in non-VF is assigned with a fabric ID other than 128, the backend ports on 7840 and SX6 during heavy traffic load may encounter credit loss, which can result in traffic disruption over the VE ports. This is tracked as Defect 660208.
- Dynamic LAG (LACP) on Gigabit-Ethernet LAN ports is not supported.

9.3.11 Brocade Analytics Monitoring Platform

- FOS v8.2.0 and later supports vTap on Brocade Gen 5 and Gen 6 platforms to be monitored by the Brocade Analytics Monitoring Platform. The supported Brocade platforms include: 6510, 6505, 6520, DCX 8510, 6543, 6545, 6546, 6547, 6548, M6505, 6558, G630, G620, G610, X6
- vTap is not supported on QSFP ports (port 96 – 127) on Brocade G630 with Virtual Fabric (VF) mode. It is supported in non-VF mode only.
- If QSFP ports (port 96 – 127) on a Brocade G630 switch are part of the `sys_analytics_vtap` flow definition, the mirrored frames from these QSFP ports will be discarded for some duration after a HAreboot or after a `sys_analytics_vtap` flow de-activation.
- Analytics Switch Link (ASL) connection is not supported on QSFP ports (port 96 – 127) on Brocade G630. Enabling ASL on these ports will segment the link.
- vTap and auto-discovered AF_Ports do not support high availability. In the event that an AF_Port is re-discovered by a fabric switch after a domain change on the attached Analytics Monitoring Platform and followed by a hafaifover or hareboot of the fabric switch, the remote AF_Port information would be stale and vTap flows cannot be activated. In this case, use one of the following workarounds:
 - Manually configure the AF_Port after hafaifover or hareboot
 - Disable and then enable the AF_Port on the Analytics Monitoring Platform
 - Deactivate vTap flow before firmware download, hafaifover, or hareboot and activate vTap flow again.
- vTap and CS_CTL are mutually exclusive on a fabric switch. If CS_CTL is enabled on one port, the entire switch cannot enable vTap. An F_Port trunk supporting CS_CTL must have all ports in the trunk group enabling CS_CTL. Similarly, in order to enable vTap, all ports in an F_Port trunk must have CS_CTL disabled. In addition, the master port of a trunk should remain the same between CS_CTL enable and disable. If this sequence is not followed, vTap may remain active even after CS_CTL is enabled on an F_Port, or the error message “Disable QoS zones error” may be observed when enabling vTap. A suggested method is to use the following sequence:
 - When enabling CS_CTL mode, enable on all slave ports, followed by enabling on the master port, noted as port M.
 - When disabling CS_CTL mode, disable all active ports in the trunk, except the master port M. Disable CS_CTL mode on port M. Enable all ports in the trunk followed by disabling CS_CTL mode on the remaining ports.
 - When CS_CTL is enabled on a port without any connection, after reboot and disabling CS_CTL, vTap cannot be enabled. The workaround is to enable the port as a SIM port after disabling CS_CTL, then toggle the port and remove the SIM port configuration.
- vTap and in-flight encryption or compression compatibility is supported only on the following platforms: Brocade DCX8510, X6, G620, G630, and 6520. On DCX8510 and 6520 platforms, the chassis configuration “vTap and Encryption/Compression Coexistence Mode” must be enabled when ports with vTap enabled and ports with in-flight encryption or compression enabled belong to the same ASICs. Please refer to the hardware installation guides of these platforms for port to ASIC mapping boundary.
- When “vTap and Encryption/Compression Coexistence Mode” is enabled, the total IOPS on the same ASIC chip is limited to 250,000. If the IOPS exceeds the limit, the vTap flow will be deactivated.
- When “vTap and Encryption/Compression Coexistence Mode” is enabled, the effective default zone access mode must not be “All Access”.
- Running `flow --show sys_analytics_vtap` command when vTap and QoS High compatibility mode is enabled but vTap flow is not active may display incorrect the message: “Enable vTap and QoS High Priority Zone Compatibility Mode to active vTap flow. Please use the `configurechassis` command to enable this compatibility mode.” This is tracked as defect 604429
- After a **configuredownload** followed by **switchenable**, or a flow statistics reset on Brocade X6 and G620, MAPS may incorrectly reports VTAP IOPS > 250,000 violation.
- AMPOS 2.2.0 or later is required to support FC32-64 blades. Users should upgrade Brocade Analytics Monitoring Platform to AMPOS 2.2.0 or later before adding FC32-64 blades to X6.

9.3.12 Flow Vision

- Flow Vision supports only logical group names that begin with alphabetic characters.
- Frame count statistics of a Flow Monitoring flow may stop incrementing after a **statsclear** command. To work around the problem, users may run the **slotstatsclear** command. To recover from such condition, users should run the following steps:
 - a. Disable all flows in the logical switch.
 - b. Delete the problem flow.
 - c. Create a new flow to replace the problem flow.
 - d. Activate the new replacement flow.
 - e. Verify the new replacement flow.
 - f. Enable all other flows.
- IO Insight metrics are supported on ingress and egress ports on Brocade X6 and on egress ports on Brocade G620 and G630 switches. They are not supported on Brocade G610 switches.
- Activating a Flow Monitoring flow on an egress port on Brocade G610 with **-frametype** parameter may encounter resource not available error.
- FC-NVMe flow IO Insight metrics are supported with Flow Monitoring flow on a port defined on Brocade G630 and FC32-64 blade only. Users must use the **-nsid** parameter with the **flow --create** command to monitor FC-NVMe flows. Either a valid Name Space ID (NSID) must be used or the keyword “all” used to select all valid NSIDs.
- When a flow is created with the **-frametype** parameter, FC-NVMe traffics included in the metrics for the following SCSI frame types: SCSI, SCsITur, SCsIXferry, and SCsIGoodStatus.
- Flow Mirroring is not supported on QSFP ports (port 96 – 127) on Brocade G630 with Virtual Fabric (VF) mode. It is supported in non-VF mode only.
- Mirror port is not supported on QSFP ports (port 96 – 127) on Brocade G630. Enabling mirror port on these ports will disable the ports.
- If a flow is imported to MAPS and configured with incorrectly configured flow metrics thresholds, high frequency violation of the thresholds may result in very slow display of the RASLOG alerts for the violations.

9.3.13 FICON

For FICON-qualified releases, please refer to the Additional Considerations for FICON Environments section of the Appendix for details and notes on deployment in FICON environments. (This appendix is only included for releases that have completed FICON qualification).

9.3.14 Miscellaneous

- If the ambient temperature is above the recommended operational limit, the power supply units may shut down, in particular when the ambient temperature is above 62°C for Brocade X6 Directors. This will result in the switch being shut down without any warning. Please refer to the *Brocade G620 Hardware Installation Guide* and the *Brocade X6-8/X6-4 Hardware Installation Guides* for the recommended ambient temperature limits for the switches.
- After a Power Supply unit is removed from a Brocade G620, the **historyshow** command may miss the entries for this FRU removal or insertion event. In addition, the RASLog ERROR message EM-1028 may be logged when the Power Supply is removed. This condition can be corrected by a power-cycle of the switch.
- After running offline diagnostics mode 1 on QSFP ports, a Brocade G620 must be rebooted before operational use.
- All links in an ICL QSFP connection on an X6 Director must be configured to the same speed using the **portcfgspeed** command from one of the following supported list: 16 Gb/s, 32 Gb/s, or ASN.
- When zoning database size exceeds the maximum supported limit, 2 MB for directors and 1 MB for fixed port switches, firmware upgrade from FOS v8.0.x to FOS v8.1.0a or later may be blocked. Users should run “**cfgSize**” command to make sure the “Zone DB max size” is not exceeded.

- ASN is not supported with 4x32GFC breakout optics (p/n 57-1000351-01) for ICL of X6 connecting to a 4x16G FC in an ICL of DCX8510. The speed must be set to 16 Gb/s or 32 Gb/s fixed.
- Connecting 4x32G FC breakout optics (p/n 57-1000351-01) to 32 Gb/s SFP peer ports on Gen 6 platforms, ports may auto negotiate to 16 Gb/s after **switchdisable** and **switchenable** on the Gen 6 platforms with 32 Gb/s SFP ports. The Gen 6 platforms with 32 Gb/s SFPs should be upgraded to FOS v8.2.0 and later or FOS v8.1.2b or later to avoid this issue. This issue is more likely to occur when the Gen 6 platforms with 32 Gb/s SFPs are X6 directors.
- Brocade G630 LEDs illuminate amber and green during power up.
- Running **portloopbacktest lb_mode 1** on Brocade G630 with FOS v8.2.0 is not supported and may result in corruption of the attached SFP optics. The corrupted SFP optics must be replaced as a result. FOS v8.2.0a and later on G630 is required to run this test.
- Running **portloopbacktest -lb_mode 1 -enetmode --slot # -uports #** to Ethernet ports on FC32-64 will always result in failure in FOS v8.2.0a (Defect 649124). Please avoid running this test on Ethernet ports until this issue is fixed.
- A Brocade X6 director that has connections to Brocade Access Gateway (AG) should avoid upgrade to FOS v8.2.0. Otherwise, some FOS service modules on the standby CP may terminate unexpectedly. The X6 director should be upgraded to FOS v8.2.0a or later instead.

Chapter 10: Defects

Some defects listed in the following tables do not apply to the Brocade G610, G620, G630, or X6 platforms but were disclosed in a previous release.

10.1 Closed with Code Changes in Fabric 8.2.0b

Defect ID:	DEFECT000660134		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Hardware Monitoring
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	Third party call home system unable to process inventory report files		
Condition:	Inventory report file submitted in *.json when expecting *.xml		

Defect ID:	DEFECT000660167		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	MAPS - Monitoring and Alerting Policy Suite
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	Missing MAPS alert when chassis core blade is removed.		
Condition:	This issue is observed when core blade is removed from the chassis.		

Defect ID:	DEFECT000660248		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	SNMP - Simple Network Management Protocol
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	After upgrade to v8.2.0a, switch reports incorrect value in SNMP FCMGMT-MIB::connUnitNumports query		
Condition:	This is observed on chassis platforms.		

10.2 Closed with Code Changes in Fabric 8.2.0a

Defect ID:	DEFECT000641724		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Routing
Reported In Release:	FOS8.1.1	Technology:	Traffic Management
Symptom:	User may encounter proxy devices missing from NS.		
Condition:	This may be seen after rebooting a backbone switch.		

Defect ID:	DEFECT000647702		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	MAPS - Monitoring and Alerting Policy Suite
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	FICON host may not be notified of MAPS port FENCE action that occurs as a result of a stats threshold violation		
Condition:	<ol style="list-style-type: none"> 1. FMS enabled. 2. FICON Health Checker running, with IOS_FABRIC_MONITOR checks enabled. 3. MAPS is running with the FMS and FENCE actions enabled in the mapsconfig5. 4. MAPS rule having the FENCE action is triggered on a port. 		

Defect ID:	DEFECT000648052		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	RAS - Reliability, Availability, and Serviceability
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	SupportSave ftp and sftp options will upload the files to user specified remote directory. If the remote directory is not pre-set as writeable, there is case that supportsave may proceed completely, not knowing the upload files are not uploaded properly if the remote server does		

	not return an error for the upload operation.
Condition:	Customer does not make supportsave upload directory as writable.

Defect ID:	DEFECT000649293		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Configuration Fundamentals
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	User might see incorrect values for IP Extension and Tape Pipelining under Port Admin-->Ve/VeX --> FCIP Tunnel stats. Also, User is unable to view Remote Switch WWN, Local Port IP and Remote port IP parameters in WebTools		
Condition:	Switch supports FCIP or Chassis has an FCIP blade		

Defect ID:	DEFECT000650980		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	CLI - Command Line Interface
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	portloopback test with lb mode option 1 (external loopback mode) for 40G BiDi QSFP, pn 57-1000339-01, in FC-32-64 GEN6 blade is not supported. An ineffective error message is seen on the console		
Condition:	portloopback lb mode 1 (external loopback mode) is not supported for FC32-64 blade with 40G BiDi QSFP pn 57-1000339-01, Ethernet mode QSFP.		

Defect ID:	DEFECT000651065		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Access Gateway
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	32G QSFP pn 57-1000351-01 sometimes negotiate down to 16G		
Condition:	When the 32G QSFP pn 57-1000351-01 is connected to a 32G SFP		

	that was rebooted
Workaround:	portdisable / portenable after reboot

Defect ID:	DEFECT000652136		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Routing
Reported In Release:	FOS8.2.0	Technology:	Traffic Management
Symptom:	On a FCR backbone to edge setup, after fastboot on a backbone switch, online devices are missing from GE_PT response from a translate domain.		
Condition:	This results from a timing issue when device is coming online and an RSCN is sent out before GE_PT is exchanged.		

Defect ID:	DEFECT000653263		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Port Bring-up
Reported In Release:	FOS8.2.0	Technology:	Traffic Management
Symptom:	LTO tape library may sync up at 4G instead of the optimal 8G speed when connected to a G610.		
Condition:	LTO tape library connected to a G610.		

Defect ID:	DEFECT000653676		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Flow Vision
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	Flow monitor monitors stats only on the current active master port of the trunk group. However flows created on the member of EX port trunk group doesn't show stats after the port transitions into new master port of the trunk group. E.g: Port 34 and 35 are members of EX-port trunk group. flow --create kp6i -ingrport 34 -srcdev "020a00" -dstdev "caf001" -fea		

	<pre>mon (Slave port) flow --create kp7i -ingrport 35 -srcdev "020a00" -dstdev "caf001" -fea mon (Master port) kp6i is not showing stats after port 35 goes offline and port 34 becomes new master.</pre>
Condition:	Flow vision is used to monitor flows on an EX port trunk group on an edge fabric.
Workaround:	<ol style="list-style-type: none"> 1. Deactivate all the flows defined in the trunk group. 2. Activate the flow on new master port. e.g: <ol style="list-style-type: none"> 1. flow --deact kp6i;flow --deact kp7i 2. flow --act kp6i
Recovery:	<ol style="list-style-type: none"> 1. Deactivate all the flows defined in the trunk group. 2. Activate the flow on new master port.

Defect ID:	DEFECT000654403		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	FCIP Tunnel Management
Reported In Release:	FOS8.2.0	Technology:	Extension
Symptom:	IP address modification for an IP that is attached to one or more SLA configured circuits will either fail with a message to re-enable the circuit or the circuit will get stuck in a 'test' state.		
Condition:	If a customer has a circuit configured with an SLA and an IP address modify request is attempted, the following events will occur: <ol style="list-style-type: none"> 1) At the start the circuit will be in an 'online' state (not in 'test' state), during the IP address modification the remote side will go down causing the circuit to change states. 2) Finally when the IP address modification finishes (with error or success), the circuit will most likely be stuck in a 'test' state. 		

Defect ID:	DEFECT000654503		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	D-Port - Diagnostic Port
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	D-Port Link traffic test will fail when user move ports to newly created logical switch.		

Condition:	If both the switches have the same domain ID, then D-port test will fail in link traffic test.
Workaround:	Resolve the domain ID conflict by doing switchdisable and switchenable.
Recovery:	Resolve the domain ID conflict by doing switchdisable and switchenable.

Defect ID:	DEFECT000654801		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	D-Port - Diagnostic Port
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	when core blade is removed/inserted, user may observe hafaifover on chassis.		
Condition:	when core blade is removed/inserted and if On-demand D-Port is configured on switch configuration, D-Port test will be started on all ports in the blade. while running test, manually if user tries to stop the test and exit from the D-Port mode rarely users may see Hafaifover on chassis.		

Defect ID:	DEFECT000654945		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extended Fabrics
Reported In Release:	FOS8.2.0	Technology:	Extension
Symptom:	In "lldp --show -port <port-name>" output, some extension vlans (configured on that port) don't show up		
Condition:	When slot mode is changed to hybrid		
Recovery:	Remove and reapply the ipif configurations for that port		

Defect ID:	DEFECT000655094		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management GUI

Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	User is currently able to view property member for a peer zone in Zone Admin, which should be hidden		
Condition:	Peer Zone is available on Switch		

Defect ID:	DEFECT000655108		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Buffer Credit Management
Reported In Release:	FOS7.3.2	Technology:	Traffic Management
Symptom:	Customer seeing the long distance LS buffer settings get lost following reboot of 7800 switch		
Condition:	Configuring the long distance mode on 7800 switch port and then reboot of the box may exhibit the issue on a very rare occasion.		
Recovery:	Customer may reconfigure the long distance configuration again on the switch port		

Defect ID:	DEFECT000655168		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	High Availability
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	For ETH ports in non-breakout mode, the secondary ports will be disabled and switchshow will show them as Disabled (Persistent) (QSFP Secondary port). After hafailover, switchshow will only show them as Disabled (Persistent). This is just a display issue.		
Condition:	Secondary ETH ports in non-breakout mode after hafailover, will no longer display (QSFP Secondary port).		

Defect ID:	DEFECT000655408		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	FCIP - Fibre Channel

			over IP
Reported In Release:	FOS8.2.0	Technology:	Extension
Symptom:	Extended TCP LAN throughput statistics can show high values on an idle connection.		
Condition:	Throughput values for emulated TCP connections do not update in a timely manner when an active connection goes completely idle for a long period of time.		

Defect ID:	DEFECT000655429		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	RAS - Reliability, Availability, and Serviceability
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	While changing the domain of a switch, hfailover to standby CP could occur in the rare event of a race condition.		
Condition:	This occurs in the rare event of a race condition between a request time out and the response from the data processor due to switch disable for a domain change.		

Defect ID:	DEFECT000655499		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	SNMP - Simple Network Management Protocol
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	Unable to connect with SNMPv3, SNMP communication is failing with default credentials from BNA.		
Condition:	FCIP ports should be present on the switch with a few online tunnels and circuits.		

Defect ID:	DEFECT000655518		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Services
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	User may still observe the RLS information even the port or switch disabled.		
Condition:	The RLS information will be retained even the port goes offline.		

Defect ID:	DEFECT000655567		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	D-Port - Diagnostic Port
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	With 4x32GFC breakout QSFP optics p/n 57-1000351-01 (E-port connection) when initiated D-Port test on a single port the test gets passed but it fails 1 out of 10 times (approximate) on one port with protocol error when the test is initiated on 4 ports simultaneously		
Condition:	In 4x32GFC breakout QSFP optics p/n 57-1000351-01 (E-port connection) user will see D-Port test failure in 1 out of 10 times (approximate) on one port with protocol error when the test is initiated on 4 ports simultaneously		
Workaround:	Toggle the port on both sides of the link and restart the D-Port test.		
Recovery:	Toggle the port on both sides of the link and restart the D-Port test.		

Defect ID:	DEFECT000655666		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extended Fabrics
Reported In Release:	FOS8.2.0	Technology:	Extension
Symptom:	LAG port members go into disabled state when changing the LAG port speed or the port auto-negotiate setting.		

Condition:	This will occur when modifying a LAG speed or port auto negotiate setting.
Recovery:	Manually re-enable the port members with the CLI 'portenable <port>' command.

Defect ID:	DEFECT000656322		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	ISL - Inter-Switch Linking
Reported In Release:	FOS8.2.0	Technology:	Traffic Management
Symptom:	The ISL takes long time to come online when connected between 32G QSFP pn 57-1000351-01 and Fixed speed 16G QSFP or SFP. The swtchshow output displays AN for longtime.		
Condition:	This issue occurs after the 32G QSFP pn 57-1000351-01 optic was introduced.		

Defect ID:	DEFECT000656513		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Services
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	CLI command cfszsize displays a lower value of the Chassis-wide committed zone DB size. This may result in the switch allowing zone configurations the exceeds the maximum size supported by the chassis.		
Condition:	This defect has been seen on GEN6 chassis' when the following steps are done. 1. Download new firmware and reboot the switch (or) Reboot the standby CP, 2. Download new firmware again and reboot the switch (or) an HA failover. The issue requires multiple Logical Switches to be configured.		
Recovery:	Run CLI cfszenable to enable the zoning configuration which is already enabled.		

Defect ID:	DEFECT000656544		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Zoning
Reported In Release:	FOS8.1.0	Technology:	Security
Symptom:	User may notice intermittent loss of peer zones from effective configuration when making zoning configuration through Webtools.		
Condition:	This issue may occur when user modifies peer zone by adding members to principle list or member list and activates through Webtools.		

Defect ID:	DEFECT000656612		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Flow Vision
Reported In Release:	FOS8.0.0	Technology:	Monitoring
Symptom:	The ip_err_crc counter is removed from sloterrshow to avoid confusion and unnecessary troubleshooting.		
Condition:	Output of the sloterrshow command is changed.		

Defect ID:	DEFECT000656694		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management GUI
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	CSCTL warning dialog does not allow user to reboot the switch though it has "Yes" option in the same WebTools dialog		
Condition:	Seen when user configures CSCTL mode 0 switch using WebTools		

Defect ID:	DEFECT000656798		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Virtual Fabrics

Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	NS memory(VSZ) may increase gradually over time on a unlikely user scenario of repeated LS create and delete. On extreme timing window, NS daemon could terminate on LS delete but not observed so far.		
Condition:	Repeated LS create and delete could cause this behavior		

Defect ID:	DEFECT000656847		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	MAPS - Monitoring and Alerting Policy Suite
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	The monitoring and alerting system notification on BNA shows alerting for IP_EXTN_FLOW with an incorrect DP number for chassis environment.		
Condition:	SX6 blade with IP Extension traffic with MAPS monitoring enabled chassis.		
Workaround:	The RASLOG events captured on BNA displays the correct format of the DP.		

Defect ID:	DEFECT000656851		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Configuration Fundamentals
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	REST exposes port configuration on G620-Wedge ports 44-47 when encryption is enabled.		
Condition:	This is encountered when encryption is enabled		

Defect ID:	DEFECT000656861		
Technical Severity:	High	Probability:	Low

Product:	Brocade Fabric OS	Technology Group:	Port Bring-up
Reported In Release:	FOS8.2.0	Technology:	Traffic Management
Symptom:	In some cases, error displays interface does not have eth port ready during FCOE provisioning on Ethernet port		
Condition:	During FCoE port provisioning on eth port		
Recovery:	Convert the Ethernet port to FC port and back to Ethernet port using flex port cli (portcfgflexport).		

Defect ID:	DEFECT000656866		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Configuration Fundamentals
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	Switch may hit out of memory due to multiple instances of dhclient running when DHCPV6 is turned on and no DHCP service running on the network.		
Condition:	It happens when DHCPV6 is enabled and DHCP server is not running on the network.		

Defect ID:	DEFECT000656992		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Configuration Fundamentals
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	FCoE configuration for FC32-64 blade may still be preserved after swapping with a FC32-48 blade.		
Condition:	If the FC32-64 blade upper range ports (e.g. ports 48-64) have been configured as FCoE ports, the FCoE configuration on these upper range ports will not be cleared after swapping with a FC32-48 blade		
Workaround:	Remove the FCoE configuration for the FC32-64 blade before removing the blade.		

Defect ID:	DEFECT000657074		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	CLI - Command Line Interface
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	Error message "ERROR: UID change error:-1: Command may face permission issues on proceeding further" is printed, when portchannel and lldp related commands are executed with admin user on 7840		
Condition:	execution of portchannel and lldp CLI		
Recovery:	The error messages are harmless and does not impact functionality		

Defect ID:	DEFECT000657091		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Port Bring-up
Reported In Release:	FOS8.2.0	Technology:	Traffic Management
Symptom:	32G QSFP pn 57-1000351-01 may negotiate to 32G when connected to another 32G QSFP pn 57-100031-01 that is configure for fixed 16G.		
Condition:	Multiple portdisable/enable occurring on the auto-negotiate configured side.		

Defect ID:	DEFECT000657764		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Fastwrite
Reported In Release:	FOS8.1.1	Technology:	Extension
Symptom:	XTUN-1001 RASLOGs being generated incorrectly		
Condition:	During initial FCP/SCSI PRLI processing with Fast Write enabled on the FCIP tunnel, if a command is received at about the same time as the PRLI ELS Accept, the XTUN-1001 may be generated. This is due to logic that re-initializes all existing ITN objects. The RASLOG should not be generated in this case.		

Defect ID:	DEFECT000658034		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Configuration Fundamentals
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	When performing a PATCH operation, the switch will not accept any uint32 value for <payload>		
Condition:	This is due to File brocade-fibrechannel-diagnostics.yang leaf <payload> missing range and pattern definitions.		

Defect ID:	DEFECT000658519		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Syslog
Reported In Release:	FOS8.0.2	Technology:	Monitoring
Symptom:	After upgrade to FOS 8.0.x from v7.x, There is a missing ' ' separator between slot and wwn in [MAPS-1003] raslog.		
Condition:	This defect impacts FOS v8.0.x and above only. The missing separator caused customer parser script to fail.		

Defect ID:	DEFECT000658525		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	FCIP Tunnel Management
Reported In Release:	FOS8.1.2	Technology:	Extension
Symptom:	BNA 14.2.1 appears to successfully complete a firmware migration but the firmware on the switch remains unchanged.		
Condition:	This is encountered only in the presence of an SX6 blade in a chassis.		

Defect ID:	DEFECT000658739		
Technical Severity:	Critical	Probability:	Low

Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Routing
Reported In Release:	FOS7.4.1	Technology:	Traffic Management
Symptom:	When a new NPIV device is added to the effective zoning cfg, there can be a short window of frame lost for other NPIV devices on the same physical port running traffic.		
Condition:	When the NPIV is Hard Zoned, adding a new NPIV device on another port can cause a momentary loss of traffic.		
Workaround:	Do not add new NPIV devices into effective HW zoning configuration where other NPIV devices are connected to the same physical port running traffic.		

Defect ID:	DEFECT000658875		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	SNMP - Simple Network Management Protocol
Reported In Release:	FOS8.1.0	Technology:	Management
Symptom:	Remove <time-base> in mapsConfigMsList description in the MIB Reference document.		
Condition:	<time-base> removal from the mapsConfigMsList description in the MIB Reference document.		

Defect ID:	DEFECT000658992		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	High Availability
Reported In Release:	FOS8.1.2	Technology:	Management
Symptom:	Software verify error detected after hareboot on G610		
Condition:	Rare locking sequence race condition during hareboot caused software verify.		

Defect ID:	DEFECT000659152		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management GUI
Reported In Release:	FOS8.2.0	Technology:	Management
Symptom:	Zoning checksum error message during zone operations through web tool zone admin page.		
Condition:	Switch running FOS v8.2, when enabling zoning configuration after making changes through web tool, it failed with the "Error: Operation failed due to checksum mismatch"		
Workaround:	Use FOS CLI or exit Zone Admin in Web Tools and resubmit zone enable.		

Defect ID:	DEFECT000659481		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management GUI
Reported In Release:	FOS8.1.0	Technology:	Management
Symptom:	When managing switch running FOS v8.1.0b and later with https, observed high CPU load.		
Condition:	This issue impacts HTTPS, not HTTP, on FOS v8.1.0b and later. The current fix is for X509 key validation in Basic mode.		

Defect ID:	DEFECT000659881		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	D-Port - Diagnostic Port
Reported In Release:	FOS7.4.2	Technology:	Monitoring
Symptom:	D-Port fails as protocol error for "HDA3" series 16G LWL 10km SFPs during the electric and optical loopback portion of the test.		
Condition:	D-port test reports failure when ran on 16G LWL SFP, Part Number 57-0000089-01, with serial number starting with 'HDA3' (sfpshow). This failure has no impact on production FC traffic itself.		

Workaround:	Avoid running D-port test on 16G LWL 10KM "HDA3" SFP. If D-port test fails then exit by: portdisable <port>; portcfgdport --disable <port>; portenable <port> to resume production traffic without any impact.
Recovery:	Upgrade to a FOS release version with this defect fix which bypasses electric and optical loopback test to avoid D-port test reporting failure.

Defect ID:	DEFECT000659926		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Hardware Monitoring
Reported In Release:	FOS8.2.0	Technology:	Monitoring
Symptom:	Customer may notice their applications running on Host servers and sending RDP request to a switch port display complain about the Unknown (speed capability) bit set along with the speed capability bits that the switch port provides support for.		
Condition:	If a switch port is configured to a fixed speed, the switch response to an unsolicited RDP request for the switch port correctly indicates all the bit setting corresponding to the port speeds that the port is capable of in addition to incorrectly bit setting corresponding to "Unknown" (Speed) bit in lieu of bit setting corresponding to (speed) "Configured" bit in speed capability field of the RDP response.		

10.3 Closed with Code Changes in Fabric OS 8.2.0

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of November 30, 2017 in version 8.2.0.

Defect ID:	DEFECT000498330		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.3.0	Technology:	D-Port - Diagnostic Port
Symptom:	Increase in er_unroutable and er_other_discard counts in port statistics on the local D-Port when the switch at the remote end of the link is rebooted or HA rebooted.		
Condition:	When a link which has static D-Port configured between two switches and the switch at one end of the link is rebooted or HA fail over is done.		

Defect ID:	DEFECT000544572		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.0	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Spurious "[TS-1010], Time update by NTP server" events logged to RAS and console		
Condition:	When NTP service is configured with TS clock server to remote NTP server.		
Workaround:	No problem observed when NTP service uses LOCL instead of a clock server.		

Defect ID:	DEFECT000563493		
Technical Severity:	Low	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.1.1	Technology:	Hardware Monitoring

Symptom:	RLS probing not working on shared area ports.
Condition:	When RLS probing is enabled, ports that have 10-bit areas are not discovered.

Defect ID:	DEFECT000563559		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Configuration Fundamentals
Symptom:	Hot code load turned disruptive.		
Condition:	Upgrade from pre-v7.4.1 FOS to v8.0.x on Brocade non?director class switches.		
Workaround:	For non-disruptive firmware migration, do not upgrade any Brocade non?director class switch running any FOS v7.4.0x version directly to any FOS v8.0.x version. Instead, upgrade first to a FOS version with a fix for defect 563559 (FOS v7.4.1 or later) and then upgrade to the desired FOS v8.0.x.		

Defect ID:	DEFECT000573218		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.0	Technology:	D-Port - Diagnostic Port
Symptom:	At the end of D-Port test, user may observe the message "no matched registered entry" on the console.		
Condition:	When user is running D-Port test on multiple ports between a switch and a Host Bus Adapter.		

Defect ID:	DEFECT000576240		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.0.1	Technology:	FIPS - Federal Information Processing

			Standards
Symptom:	CVE-2015-7575 TLS 1.2 Transcript Collision attacks against MD5 in key exchange protocol (SLOTH).		
Condition:	Only cryptographic software using TLS 1.2 is affected. This man-in-the-middle attacker able to force a TLS connection to use the MD5 hash function could use this flaw to conduct collision attacks to impersonate a TLS server or an authenticated TLS client.		
Recovery:	Due to these attacks, most cryptographic software was patched to stop accepting MD5 certificates.		

Defect ID:	DEFECT000577460		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	DP panic during HCL, which causes switch going to faulty state. As a result, the switch traffic will get disrupted.		
Condition:	This issue is very rarely to happen. Occasionally while perform firmware download on 7840, DP panic and cause the switch to go faulty.		
Recovery:	Reboot or power cycle the switch to recover.		

Defect ID:	DEFECT000581120		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	Configuration Fundamentals
Symptom:	Zoned ports might change zone enforcement to Session Based HARD Zoning [ZONE-1004] or [Zone-1004]		
Condition:	During the handling of zone enforcement change		

Defect ID:	DEFECT000588840		
Technical Severity:	Medium	Probability:	High

Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	D-Port - Diagnostic Port
Symptom:	D-Port fails when DWDM is applied to it		
Condition:	When DWDM is enabled on a port configured as D-Port.		
Workaround:	Disable the D-Port configuration using "portcfgdport --disable <port no.>" and then execute the command "portcfgdport --enable -dwdm <port no.>"		

Defect ID:	DEFECT000592567		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Some of the slow drain ports may not be enforced with a quarantine action. This can be verified from sddquarantine ---show CLI.		
Condition:	When the device takes unusually long duration to come online and the switch port is already quarantined.		

Defect ID:	DEFECT000597468		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	IPv6 address will be truncated in killtelnet CLI output.		
Condition:	This applies for telnet session; SSH session works fine.		

Defect ID:	DEFECT000600771		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In	FOS7.4.1	Technology:	LDAP - Lightweight Directory Access

Release:			Protocol
Symptom:	Supportsave data does not include output from "ldapcfg --show" command.		
Condition:	This is required to help troubleshoot LDAP issues.		

Defect ID:	DEFECT000605182		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	16G and 32G platforms output 'rbash: SHLV: readonly variable' error when user issues login command on admin/user privilege.		
Condition:	On 16G and 32G switches, issue login via admin/user privilege: sw0:FID128:admin> login rbash: SHLV: readonly variable <----- sw0:FID128:user> login rbash: SHLV: readonly variable <----- Root works as expected: sw0:FID128:root> login		

Defect ID:	DEFECT000606375		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	Hardware Monitoring
Symptom:	The LED color during a portloopback test on 32G switch will flash Green.		
Condition:	This defect is applicable to 32G platforms running loopback test.		

Defect ID:	DEFECT000607751		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	CLI - Command Line Interface

Symptom:	Port health in "portshow" CLI is inaccurate on EX-port.
Condition:	Port health/state is not getting updated after EX-Port disable and enable.

Defect ID:	DEFECT000609243		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.0	Technology:	FICON
Symptom:	Some FICON F_Ports became persistently disabled when moving the ports from one director to another in the same fabric.		
Condition:	Switch configuration is downloaded to the switch with FMS mode enabled, but all of the prerequisites (SCC_POLICY active, SCC:S fabricwide policy active, HIF mode enabled, Insistent DID mode enabled) are not met.		
Workaround:	Enable all the prerequisites, in addition to FMS mode. After doing so, switch reboot may be required.		

Defect ID:	DEFECT000609360		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	SSH connection to Brocade 7840 fails intermittently.		
Condition:	This is a rare corner case occurrence on Brocade 7840.		

Defect ID:	DEFECT000609452		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	Switch time is set back to 1970/01/01 after disable TDZ command is		

	run on all ports. In addition, sometimes pdm queue full is reported.
Condition:	This issue is seen when disable TDZ (portcftdz -disable *) is ran on all ports of the switch. The issue is NOT seen if only a few ports are disabled.

Defect ID:	DEFECT000611478		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.3.1	Technology:	Fibre Channel Addressing
Symptom:	Switch encounters a kernel panic following an hafailover.		
Condition:	<p>The WWN Based Persistent PID feature is enabled.</p> <p>The address mode on the partition (logical switch) is either Zero Based or Port Based Area Assignment.</p> <p>Ports are moved into a partition, the attached devices are allowed to come online and login, and then the ports -- and their devices -- are moved out of the partition.</p> <p>Different ports are moved into the partition, come online, but the devices are not able to login.</p> <p>Hafailover/hareboot occurs.</p>		
Workaround:	Move ports (and their devices) back into the partition that were there originally.		
Recovery:	<p>Remove all files matching the following on all CPs:</p> <p>/etc/fabos/port2BoundAreaMap*</p> <p>/mnt/etc/fabos/port2BoundAreaMap*</p> <p>Cold reboot all CPs.</p>		

Defect ID:	DEFECT000614911		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Switch may go into rolling reboot with the following console message: "The Hardware Clock does not contain a valid time, so we cannot set the System Time from it. Unable to set system clock."		
Condition:	This may occur under a rare circumstance where the hardware clock		

	goes faulty or corrupted.
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Defect ID:	DEFECT000616744		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Inband Management
Symptom:	User daemon terminated causing a switch panic after reading a corrupted frame buffer.		
Condition:	During race condition when there is a frame trapped to CPU for handling or when there is a multi-frame sequence received out of order.		

Defect ID:	DEFECT000617449		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	CLI - Command Line Interface
Symptom:	Incorrect extension circuit RTT reported in idle QoS on an extension tunnel. Slow retransmit counter in the extension circuit stats may be incrementing.		
Condition:	Under certain scenarios, a large and sudden change in the WAN RTT value can result in TCP unable to latch to the new RTT. This is specifically seen on TCP connections running very low throughput traffic.		
Recovery:	Taking the circuit offline and then bringing it back online should correct the condition.		

Defect ID:	DEFECT000618094		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	D-Port - Diagnostic Port
Symptom:	Spinfab command will return FAILED status when run on Analytics		

	(AE) E-ports connected to AMP switches.
Condition:	Occurs when spinfab is run against AE E-ports.

Defect ID:	DEFECT000618361		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	High Availability
Symptom:	Director may lose HA sync, triggered by HAM-1014 restartable daemon (md) termination during system bootup.		
Condition:	This may be encountered if configuration file with MAPS rule without timebase is downloaded to the switch.		

Defect ID:	DEFECT000618711		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	Host lost access to target devices.		
Condition:	This results from a timing corner case situation when the name server is processing backlogged port events on a port that has since gone offline and the port object has already been removed.		

Defect ID:	DEFECT000619103		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.3.1	Technology:	Hardware Monitoring
Symptom:	Termination of weblinker is observed.		
Condition:	This issue is seen rarely when management application queries for status and reading of sensors in switch.		

Defect ID:	DEFECT000619258		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	'reseterror' option in 'ethif' CLI cannot be issued on a G620 switch.		
Condition:	This issue is seen while executing the command 'ethif --reseterror eth0' on G620.		

Defect ID:	DEFECT000619391		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.0	Technology:	Extended Fabrics
Symptom:	Config replay errors for IPSec policies can be seen when the policy is configured for PKI and the certificate is expired.		
Condition:	This will occur if a certificate is expired and the box is rebooted or an hareboot/hafailover occurs.		

Defect ID:	DEFECT000619717		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	Customer may not be able to set Forwarding from notforwarding using snmp browser. **** SNMP SET-RESPONSE START **** Error: Wrong value Error index: 1 1: ipForwarding.0 (INTEGER) forwarding(1) **** SNMP SET-RESPONSE END ****		
Condition:	Observed while changing switch mode from Forwarding to notforwarding.		

Defect ID:	DEFECT000619946		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	HTTP/HTTPS
Symptom:	BNA will return "UNKNOWN ERROR" during password reset attempt if old and new passwords are identical.		
Condition:	Observed during password reset attempt in BNA.		

Defect ID:	DEFECT000620259		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Hardware Monitoring
Symptom:	Chassis critical error C4-1010 observed during fastboot due to parity error in FTB stats memory		
Condition:	These errors may be observed during fastboot stress tests on Gen6 platforms.		

Defect ID:	DEFECT000620319		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	IPsec - IP Security
Symptom:	Internal message and command usage seen when executing ipsecconfig command on Mgmt interface; /bin/cat: /var/run/iked.pid: No such file or directory kill: usage: kill [-s sigspec -n signum -sigspec] [pid job]... or kill -l [sigspec]		
Condition:	Observed when configuring IPsec on management interface.		

Defect ID:	DEFECT000620494		
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Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.3.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	User may encounter a "Processor rebooted - Software Fault:Kernel Panic" on both CPs of a director.		
Condition:	This occurs due to an error in handling an RDP request for a port not in the current logical switch, received from a NPIV device.		

Defect ID:	DEFECT000620664		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.0.1	Technology:	TIZ - Traffic Isolation Zoning
Symptom:	New ports assigned to an existing TI Zone are not in effect until a port bounce.		
Condition:	This is seen with FOS v8.0.x. On pre-FOS 8.0.x, the ports are treated as TI zone members immediately.		
Recovery:	Bounce port.		

Defect ID:	DEFECT000620954		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Dashboard shows 4.2G errors for C3_TXTO errors (C3 timeout discards errors) for a port after trunk master of the trunk group has changed.		
Condition:	This issue is seen, If a port moves from one trunk group that has C3_TXTO errors to another trunk group that has a different master, which has different but lesser value for C3_TXTO errors.		
Recovery:	Perform "hafailover" to reset the MAPS counters data and resolve the issue.		

Defect ID:	DEFECT000621521		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	The numbers of STATE_CHG in "mapsdb --show all" increase on ports with no POD license and with no device connected to them.		
Condition:	This will be seen on all platform that has POD ports.		

Defect ID:	DEFECT000622092		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	Hardware Monitoring
Symptom:	"Baud Rate" in "sfps show" with 32G SFP is expected to be shown as "280" not "255".		
Condition:	Run Sfpshow CLI on 32G sfp.		

Defect ID:	DEFECT000622233		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	Users may see many CRC errors and CRC_geof in portersshow output with an embedded HBA performing boot-over-SAN.		
Condition:	While performing boot-over-SAN with certain embedded HBAs, it incorrectly sends the Idle fillword during link init phase.		
Recovery:	Upgrade code with fix and configure port with "portcfgnondfe --force_disable port#"		

Defect ID:	DEFECT000622430		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	User Accounts & Passwords
Symptom:	Login failure is observed for LDAP users.		
Condition:	This issue is seen when LDAP user tries to login to switch using username without domain name.		

Defect ID:	DEFECT000622847		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	User may encounter corruption to audit.cfg configuration file following the CLI command configdefault.		
Condition:	This may occur when VF is not enabled in FOS v7.4.x		

Defect ID:	DEFECT000623189		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	High Availability
Symptom:	Chassis blades may not power on after a back to back reboot.		
Condition:	When both CPs are rebooted around the same time, some of the chassis slots may not power on		
Recovery:	For the blades that did not power on, issue CLI slotpoweroff followed by slotpoweron		

Defect ID:	DEFECT000623276		
Technical Severity:	Medium	Probability:	Low

Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	Following an upgrade N_Ports encounter ?ELP Drop - non F-Port ELP in AG mode? in the fabric log and log subsequent AG-1039 messages on both N_Ports. F_Ports on AG then appear to be disabled.		
Condition:	This is seen on Access Gateway. May occur following port offline/online or switchdisable/enable without any delay on AG platforms during hareboot.		
Workaround:	Enable all F_Ports that encountered being disabled.		

Defect ID:	DEFECT000623551		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	The number of slow drain devices quarantined exceeds the configured chassis SDDQ limit.		
Condition:	After changing the SDDQ limit using configurechassis followed by hafailover.		
Recovery:	Rerun configurechassis on the CP that was standby when previous SDDQ limit was modified		

Defect ID:	DEFECT000623559		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	FCIP tunnels, with IPsec configured, may go offline due to continuous authentication tag errors.		
Condition:	When IPsec tunnels are configured between switches running different levels of FOS releases.		

Defect ID:	DEFECT000623773		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Access Gateway
Symptom:	System reload might happen when issuing CLI command 'fosexec --ag all' multiple times.		
Condition:	When executing 'fosexec --ag all <cli>' command many times in a switch having many AG devices		
Workaround:	Instead of providing '-all' option, use individual ag names Ex: fosexec --ag all -> fosexec --ag "<ag name1>, <ag name2>"		

Defect ID:	DEFECT000623780		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	The number of slow drain devices quarantined does not reach the configured chassis SDDQ limit even though additional devices were marked as slow drain.		
Condition:	After changing the SDDQ limit using configurechassis followed by hafailover.		
Recovery:	Rerun configurechassis on the CP that was standby when previous SDDQ limit was modified		

Defect ID:	DEFECT000624170		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Access Gateway
Symptom:	Host fails to discover targets after fabric switch and core Access Gateway are rebooted.		
Condition:	After rebooting Access Gateway switch and the connected fabric		

	switch, host on edge AG may not discover targets in the fabric.
Recovery:	Issue a switch disable/enable on Access Gateway switch.

Defect ID:	DEFECT000624400		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	C2-1012 Link Timeout on FX8-24 blade or 7800 switch.		
Condition:	This results from rare condition that causes incorrect VC to be assigned to a frame destined for the FCIP DP complex. This leads to the credit being returned to the wrong VC.		

Defect ID:	DEFECT000624498		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Fibre Channel Services
Symptom:	After zoning change, standby CP on all directors in the fabric go into rolling reboots.		
Condition:	When user tries to commit more than 1MB zone in a mixed fabric from a director switch the commit will fail. Then if user tries to expunge the big zone config and enable another small cfg the standby CP of the director switch might crash.		
Workaround:	Disable the zone config and enable another small zone config.		
Recovery:	Disable the zone config.		

Defect ID:	DEFECT000624603		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.0	Technology:	FICON

Symptom:	Interface Control Checks (IFCC's) may be logged against the CUP when the host executes a Write command with a large data transfer
Condition:	In a two-switch cascaded configuration having a single 8G E-port with default credit configured. Host executes a Write command with a large data transfer.

Defect ID:	DEFECT000624659		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	ethif command does not allow the user to choose the advertised link modes and uses the given speed alone for negotiation.		
Condition:	All platforms running FOS8.0.x and above will see this behavior.		

Defect ID:	DEFECT000624845		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Software Installation & Upgrade
Symptom:	Debug messages seen on standby CP during a disruptive downgrade		
Condition:	Disruptive downgrade on a Chassis' Standby CP		
Workaround:	Invoke disruptive downgrade first on Active CP.		

Defect ID:	DEFECT000625105		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	Web Tools port error details tab for GigE ports displays errors, e.g. Collision, Dribbling, and Run Time that are not applicable for GigE ports.		

Condition:	All GigE supported platforms, e.g. FX8-24 blade , 7840 switch, and SX6 blade
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Defect ID:	DEFECT000625249		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Executing femdump CLI in non-interactive mode as admin or user login, a permission denied message displays "/bin/rm: cannot unlink `/fabos/link_sbin/lscfg_test': Permission denied"		
Condition:	When logged in as admin or user, and issuing femdump cli command.		
Workaround:	There is no functionality impact. The femdump proceeds to collect the traces.		

Defect ID:	DEFECT000625550		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	The SNMP MIB object ?swFCPortOpStatus? value may be ?unknown? for the Flow Gen SIM Ports		
Condition:	This issue would only exist if Flow Gen ports are defined and snmpwalk on the SNMP MIB object ?swFCPortOpStatus? is performed.		

Defect ID:	DEFECT000625698		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	RAS - Reliability, Availability, and Serviceability

Symptom:	D-Port tests may report failures if ran in parallel on all port of a QSFP.
Condition:	Running simultaneous D-Port tests on multiple ports.
Workaround:	Rerun tests on individual ports of QSFP.

Defect ID:	DEFECT000625780		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	User may see stats even when the traffic is not running when a flow is created to monitor traffic for a particular LUN without associating it to a host or target,		
Condition:	User is interested to monitor traffic to a particular LUN.		
Workaround:	Create flow with source and / or destination device and LUN to monitor stats for a particular LUN. flow -create flow_1 --srcdev 0xAABBCC --dstdev 0xDDCCEE --lun 10 -feat mon -ingr 3/0 flow -create flow_1 --dstdev 0xDDCCEE --lun 10 -feat mon -egr 3/1		

Defect ID:	DEFECT000625879		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	HTTP/HTTPS
Symptom:	The self-signed certificate details would not be displayed in the output for the ?seccertmgmt show -all? command.		
Condition:	For self-signed certificate, the seccertmgmt command output will show as ?empty?.		

Defect ID:	DEFECT000626101		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy

Release:			Suite
Symptom:	Though MAPS allows user to configure minimum toggle timeout as 2 seconds, but it uses 5 seconds as the minimum for the toggle action		
Condition:	This is the default behavior.		

Defect ID:	DEFECT000626173		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	Port Mirroring
Symptom:	CLI "sfps show -f" does not display the updated values.		
Condition:	This will be seen on all the platforms and in all FOS versions.		
Workaround:	Execute sfps show again to see the updated values.		

Defect ID:	DEFECT000626203		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	The documentation of the action and cause field of RASLOG message RAS-1003 is inaccurate.		
Condition:	This inaccurate message is encountered for the cfgload process, when SCP protocol and autoftp are selected, but the password is empty (length 0).		

Defect ID:	DEFECT000626234		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS6.4.3	Technology:	High Availability
Symptom:	Switch panic after configuration change.		

Condition:	In a session based zoning configuration, where cpu load is high, fcp probing did not finish in time to refresh its wathcdog timer.
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Defect ID:	DEFECT000626367		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	IPsec - IP Security
Symptom:	Preshared key length for IPSec policies is allowed to be less than 32 bytes when in FIPS mode.		
Condition:	Since there is no length check enforcement in Preshared key length, user can configure IPSec policy with Preshared key less than 32 bytes when in FIPS mode. There is no functionality issue with Preshared key less than 32 bytes.		
Workaround:	Modify the IPSec policy to use a Preshared key length greater than or equal to 32 bytes.		

Defect ID:	DEFECT000626447		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	CLI - Command Line Interface
Symptom:	D-Port test fail. The failure reason: PCS BLOCK ERROR		
Condition:	Stats Clear will not clear the PCS errors. It is cleared while reading the stats. Since it is Clear On Read. This causes the D-Port fails with the reason "PCS BLOCK ERROR"		

Defect ID:	DEFECT000626610		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.2.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	DP went down and impacted FCIP traffic.		

Condition:	Internal back pressure on FX8-24/BR7800 caused DP stuck. Monitor such condition and fault the blade if it happens; Also added enhancement to dump more register contents for IP extension platforms.
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Defect ID:	DEFECT000626611		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	Incorrect data is displayed when customer formats the "flow --show" output with sub options sortby and increase /decrease.		
Condition:	When "flow --show" command is combined with sub options "sortby"and "increase / decrease"		
Workaround:	sub options sortby and increase / decrease should be used mutually exclusive in a flow --show command. Following are the examples: 1. flow --show flow_1 --increase 2. flow --show flow_1 --sortby column1		

Defect ID:	DEFECT000626676		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	High Availability
Symptom:	During HA event (hareboot, hafailover, non-disruptive FWDL, etc) on a 7840 or SX6, high CPU usage can be seen and ESM-1100 Warnings can be seen with thread timeouts. Can also cause disruptive firmware migration during extension HCL.		
Condition:	If the tunnel description field has a semi-colon character in it, 7840 and SX6 HA event and extension HCL does not work.		
Workaround:	Modify the tunnel description field to remove the semi-colon.		

Defect ID:	DEFECT000626791		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring

Reported In Release:	FOS8.1.0	Technology:	D-Port - Diagnostic Port
Symptom:	D_Port long duration optical loopback test fails for the 32G port, when executed with "portdporttest --start -nframes <no_of_frames> <port>" option.		
Condition:	The D_Port test may fail, when the "portdporttest --start" command is executed with "-nframes" option having an argument value of 40 or more (I.e. to specify 40 million or more frames for the test).		
Workaround:	Instead of specifying the number of frames, the D_Port test time can be specified using the "-time" option with the "portdporttest --start" command to run the test for long duration.		

Defect ID:	DEFECT000626833		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Software Installation & Upgrade
Symptom:	The IFL will not come up stating reason as "Analytics mode not supported" on EX_Port.		
Condition:	In a Backbone-to-Edge topology if QoS is enabled both on the EX_Port and E_Port, this issue may be observed intermittently after a portdisable and portenable of EX_Port.		
Workaround:	Disable QoS configuration on the EX-Port.		
Recovery:	Toggle the EX_Port (or) disable QoS configuration on EX_Port and then enable the port.		

Defect ID:	DEFECT000626893		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	Configuration Fundamentals
Symptom:	CLI command "configure" permits configuration of rpcd attributes, even though rpcd has been deprecated in FOS 8.0.1.		
Condition:	This is seen while executing the configure CLI command in FOS 8.0.1 and subsequent FOS versions.		

Defect ID:	DEFECT000626913		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	High Availability
Symptom:	Pizzabox switch crashes after hareboot.		
Condition:	ISL trunk master port has an error and quickly goes offline and online during hareboot.		
Recovery:	Switch should be recovered after it comes back up after the crash.		

Defect ID:	DEFECT000626948		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	After a change in the Fabric ID (FID) of the Logical Switch (LS), the sys_analytics_vtap flow doesn't mirror frames.		
Condition:	This issue happens when user modify the FID without performing a switchdisable prior to the FID changed.		

Defect ID:	DEFECT000626959		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	Firmware upgrade to v8.1.0 is blocked with error message, if the current chassis-wide committed zone DB size is close to but not higher than the maximum supported zone DB size mentioned in the firmware download failure message.		
Condition:	Configuring zone DB size very close to but not greater than the maximum chassis zone DB size shown in cfgsize CLI will lead to block the firmware upgrade to v8.1.0.		

Workaround:	Reduce the configured zone DB size to less than the maximum supported zone DB size displayed in the firmware upgrade failure message and then retry firmware upgrade.
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Defect ID:	DEFECT000627006		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	AD - Admin Domains
Symptom:	On a large scale fabric Brocade director switch may encounter NSd crash.		
Condition:	This may be seen on a large scale fabric with 10K+ devices and 12+ director switches.		

Defect ID:	DEFECT000627044		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	User Accounts & Passwords
Symptom:	Downgrading to 7.4.2 from 8.1.0. Output of userconfig will display factory accounts twice. This is display issue.		
Condition:	If user log into switch using factory account and executes "userconfig -show -a", user will see factory account info displayed twice.		

Defect ID:	DEFECT000627045		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	When execute "configdefault? followed by some junk value , it causes all FID changed to default state,		
Condition:	"The configdefault? operation is taking junk value as "-all" option, which reset all FID in the swtich to default state.		

Workaround:	When "configdefault?" is executed, a user prompt (e.g. Would you like to continue [Y/N]:) will be displayed. If user has been entered junk value to configdefault command, user can skip this operation by passing "no" in the input value.
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Defect ID:	DEFECT000627130		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	The user may observe VERIFY and not allowed to do a non-disruptive firmware upgrade to v8.1.0 or HA fail over standby system, when zone DB size is close to the max zone DB size for a particular LS (logical switch).		
Condition:	This issue occurs when virtual fabrics is enabled, the chassis has several logical switches configured, all the logical switches have zone DB sizes close to max zone DB size of the chassis, and a HA fail over or non-disruptive firmware download is performed.		
Workaround:	User can reduce the zone DB size on LS and then perform the operation.		

Defect ID:	DEFECT000627290		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	Few port LED?s does not flash green in WebTool.		
Condition:	When user use WebTool to monitor switch port state, if chassis beacon is enabled, user may observe not all ports LEDs flash in green.		

Defect ID:	DEFECT000627417		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In	FOS8.1.0	Technology:	Access Gateway

Release:			
Symptom:	A host system connected to Access Gateway fails to discover target devices connected to the edge switch in the fabric. The AG is connected to the edge switch through N_Port trunk with QoS enabled.		
Condition:	The host to target traffic may stop after disabling the QoS port configuration for the trunk master port of the N_Port trunk in the Access Gateway.		

Defect ID:	DEFECT000627440		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	An error message "?Failed to change the password?" is reported when use EZSwitch setup to change the password on G610.		
Condition:	Cannot use EZSwitch setup to change password on G610.		

Defect ID:	DEFECT000627461		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	D-Port - Diagnostic Port
Symptom:	The D_Port electrical loopback test on ISL D_Ports fails with the comment "Too many offline events".		
Condition:	This issue may be seen in some ISL D_Port links, when the test is executed on one end of the D_Port link.		
Workaround:	The D_Port test will execute properly, if the "portdporttest --start" command is executed on the switch at the remote end of the link.		

Defect ID:	DEFECT000627488		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In	FOS8.1.0	Technology:	CLI - Command Line

Release:			Interface
Symptom:	For "portshow fcipunnel" and "portshow lan-stats" commands with "--filter" action, users will not be able to filter using k m g parameters for ?byte option and mislead by help o/p of ?priority parameter.		
Condition:	Invalid syntax can be reported when using the --filter CLI option with either the --byte or --priority operands.		
Workaround:	When using the --byte option, multiply the byte field by 1,000 1,000,000 1,000,000,000 when the k m g options are intended. When using the --priority option, use the priority names IPHigh, IPMedium, and IPLow instead of the indicated ip-high, ip-medium, ip-low from the usage statement.		

Defect ID:	DEFECT000627493		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.0	Technology:	Port Bring-up
Symptom:	When creating a port map on an Access Gateway, an F-Port that is not part of the configured port map will be allowed to come online.		
Condition:	An Access Gateway switch with no policy defined can see this symptom under any condition that causes all of the N-ports go offline.		
Recovery:	Portdisable and then portenable the F-ports which are not part of the configured port map.		

Defect ID:	DEFECT000627572		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	The first frametype ingress flow works fine and it gives the error when the second frametype ingress flow is created.		
Condition:	Generally 2 frame type monitor flows are allowed on ingress port. If the first frame type flow has no srcdev and dstdev defined, then the second frame type flow is allowed. If the first frame type flow is defined with srcdev and dstdev, then second frame type flow does not work.		

Defect ID:	DEFECT000627586		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	Currently user can filter sys_mon_all_vms flow with option "srceid and srcd", but the user cannot filter based on only srceid option.		
Condition:	The user can filter particular VM from sys_mon_all_vms flow based on srceid and srcd. This means specific VM on particular PID. It will not allow the user to filter only particular VM registered in all PIDs.		

Defect ID:	DEFECT000627595		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Access Gateway
Symptom:	Stale entries will be visible under FDMI show in AG switch.		
Condition:	When a port is disabled, FDMI data base entries are not cleared in AG switch.		
Workaround:	User can find the FDMI Data Base entries by executing the fdmishow CLI on the switch.		

Defect ID:	DEFECT000627608		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	User cannot see the 7840 and X6-8 License details of the port in Web Tools even the License detail is available in CLI.		
Condition:	7840 and X6-8 ports License detail cannot show in Web Tools. 7840 40G ports with WAN rate upgrade 2 shows License as NA in PortAdmin->Gige Ports->General Tab. X6-8 shows Licensed as "No" in PortAdmin->Gige Ports->General Tab. Actual License details are correctly available in Switch Admin->License tab.		

Defect ID:	DEFECT000627611		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.0	Technology:	Fibre Channel Services
Symptom:	Following a failover from active to standby CP, the new active CP may encounter asserts and reboot from nsd Panic.		
Condition:	This may occur following numerous ports going online/offline.		

Defect ID:	DEFECT000627679		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	SNMP trap generated by MAPS for a flow that triggered a rule does not identify the flow that triggered the rule - i.e. it does not have "SID,DID & Rx port" information		
Condition:	This issue is observed only for VM Insight flow with the where the flow definition has "*" for the destination device (DID).		

Defect ID:	DEFECT000627748		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Degraded Eport keeps switch state to remain healthy during customized maps configuration.		
Condition:	<ol style="list-style-type: none"> 1. Configure a rule for MARG_PORT with action as SW_MARGINAL and add that rule to a custom policy and now enable that custom policy. 2. Configure a E-Port to become buffer limited (Degraded). Once the E-Port becomes buffer limited "mapsdb --show all " reports the switch status as HEALTHY instead of MARGINAL. 		

Defect ID:	DEFECT000627794		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	In rare occasions, flows with fixed SFID/DFID may not work and stats may not be shown.		
Condition:	This issue is not specific to backbone E-port alone. It is generic issue seen when a flow with fixed SFID/DFID is installed.		
Recovery:	The flow can be recovered by deactivating and activating it.		

Defect ID:	DEFECT000627826		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	CLI - Command Line Interface
Symptom:	Chassis Role:user allows sysShutDown command to be ran.		
Condition:	User account is allowed to execute the "sysshutdown" command when the role of the chassis level user is configured.		

Defect ID:	DEFECT000627893		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	After disabling and enabling NPIV ports on the switch, ports come up as G-ports.		
Condition:	Configuration Database is updated with a new domain ID while the switch is enabled.		
Workaround:	Disable the switch before changing the domain ID in the configuration database.		

Recovery:	Disable the switch and enable it again.
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Defect ID:	DEFECT000628051		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	When there are multiple IPsec policies in different logical switches that all need editing for FWDL to a lower version, the preinstall script only shows one logical switch at a time per execution. Once that LS is corrected, then it will show the policies from other logical switches that need editing for FWDL. This is inconsistent from the tunnel behavior which shows all offending tunnels regardless of logical switch.		
Condition:	This will occur if there are multiple IPsec policies in different logical switches that all need updates for the FWDL to a previous version to succeed.		

Defect ID:	DEFECT000628189		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	SSH - Secure Shell
Symptom:	SSH connection intermittently fails		
Condition:	SSH connection with public key (password less login) may fail to login to switch. This condition happens rarely on G620 and BR7840 platforms		
Workaround:	Disconnect and establish the connection again.		

Defect ID:	DEFECT000628482		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	The switch fails to remove the killed session immediately from the "List of Sessions" table when logged into with multiple telnet sessions and		

	'killtelnet' is executed.
Condition:	Running the CLI on FOS v8.0.x.
Workaround:	Hit the enter key again before the killed session is gone from the list.

Defect ID:	DEFECT000628484		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	IOS statistics are not reported on fully qualified flow for SX6 Extension Blade.		
Condition:	The issue happens only when creating a flow monitor with both srcdev and dstdev specified on the SX6 Extension blade.		
Workaround:	When creating a flow on SX6 Extension blade, define the flow with either srcdev or dstdev.		

Defect ID:	DEFECT000628507		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	User may observe the secd daemon termination.		
Condition:	This is encountered when performing configdownload [-all] on Gen 6 chassis with max LS enabled.		

Defect ID:	DEFECT000628605		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Fibre Channel Routing
Symptom:	Devices may lose paths or may not be able to see all paths to their storage following an hareboot or hafailover.		

Condition:	This may occur on any platform for devices that attempt to register COS.
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Defect ID:	DEFECT000628623		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	Data replication TCP connections will take 1 or more seconds to establish. This may result in data transfer or connection establishment timeout errors on the replication application.		
Condition:	In a rare circumstance running terminated TCP connections through an IPEXT enabled tunnel can result in a connection getting stuck in the LAN TCP establishment process.		
Recovery:	Reboot the affected 7840/SX6 blade.		

Defect ID:	DEFECT000628793		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	User may observe slow response times or performance degradation for requests to switch.		
Condition:	This may be observed when FMS is enabled and applications poll the switch for stats on a 1-minute cycle. Issue is seen if MAPS FPI TX/RX Utilization rules are configured and active with a 1-minute time-base and TX/RX Utilization thresholds defined in active MAPS rules are exceeded.		

Defect ID:	DEFECT000628997		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	HTTP/HTTPS
Symptom:	When performing HTTPS self-signed Certificates operations, HTTPS appears to not be enabled.		
Condition:	This is seen following self-signed operations. Ex. using CLI command seccertmgmt generate -cert https -type rsa -keysize 2048 -hash sha256 -years 5. This should be added since FOSv8.1.1 release.		

Defect ID:	DEFECT000629172		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	Hardware Monitoring
Symptom:	Standalone DCX+ chassis may turn sluggish with periodic MAPS reports showing CPU utilization at 100%.		
Condition:	This may occur on a DCX+ due to weblinker/mdd consuming a large chunk of the CPU bandwidth.		

Defect ID:	DEFECT000629422		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.3.1	Technology:	Access Gateway
Symptom:	The standby CP goes into rolling reboot with MSD panic after receiving dump from the Active CP.		
Condition:	This issue will be observed when an Invalid entry (Node Name or IP address is missing) exists for one of connected AG switches.		

Defect ID:	DEFECT000630618		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Enhance code to track PCI address of blade that caused CPs reboot.		
Condition:	This is rarely seen in director class products when there is a bad blade in the system or when the blade is improperly seated.		
Recovery:	Reseat/replace identified blade.		

Defect ID:	DEFECT000630724		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	Zoning
Symptom:	zonecreate fails with "Error: Invalid input parameters. Please remove duplicates:" error.		
Condition:	It happens during peerzone creation zonecreate : when the principal and member are both on a single switch and the first digit of member index is the same as the first index digit of principal.		

Defect ID:	DEFECT000630820		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	WebTools Support Saves collects files not accessible by non-Admin users		
Condition:	When WebTools support saves collect by a non-Admin user		

Defect ID:	DEFECT000631036		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	CLI - Command Line Interface
Symptom:	CLI Command 'slotstatsclear -s' does not work as specified with respect to the default value for slot number.		
Condition:	This may be encountered for CLI command slotstatsclear on all platforms.		

Defect ID:	DEFECT000631045		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	SNMP - Simple Network Management Protocol
Symptom:	When the offset of time is configured with the "tstimezone" command, the specified offset is reflected in system time zone. But in the time stamp of swEventTrap, the reverse GMT offset is displayed.		
Condition:	All platforms running FOS8.0.x are affected.		

Defect ID:	DEFECT000631314		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	Fibre Channel Services
Symptom:	When a device comes online and logs in, it is unable to communicate to other devices on the same switch.		
Condition:	This occurs when device logs in with conflicting VVL (Vendor Version Level) version information.		
Workaround:	Download latest driver for the device.		
Recovery:	Download latest driver for the device.		

Defect ID:	DEFECT000631422		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Fibre Channel Services
Symptom:	Management Server daemon crashes and switch reboots.		
Condition:	Rare errors during race condition while firmware handles ELS (Extended Link Services) frames.		
Recovery:	Switch recovers after it reboots.		

Defect ID:	DEFECT000632016		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.3.1	Technology:	High Availability
Symptom:	User may encounter MQ-1005 iswitch queue full, followed by termination of iswitchd process.		
Condition:	This may be encountered where speed tag is configured, when source FCR domain exchanges the all LSAN Zones (which have speed tag) to other FCR domains.		

Defect ID:	DEFECT000632217		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.2.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Switch panic or cold boot during firmware upgrade.		
Condition:	In rare condition during hot code load, if there is a mismatch in switch internal data and any online user port media speed settings, the switch will panic when upgrade to FOS v7.3.1e, v7.3.2a, v7.4.1c, and v8.0.1 or later on these code streams. Director upgrade could be cold boot.		
Workaround:	portdisable/enable speed mismatch ports before upgrade.		

Defect ID:	DEFECT000632253		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	Could not move a series of ports between Fabric IDs		
Condition:	When ports were quarantined in a previous FID even though the ports no longer resided in the original quarantined FID.		
Recovery:	Return ports to the original FID and unquarantine all ports which were still in a quarantined state.		

Defect ID:	DEFECT000632279		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	SNMPv3 Informs with Auth and/or Priv may not be processed by Management system.		
Condition:	Issue is seen when the Manager engine ID size is more than 12 bytes.		
Workaround:	Use the Manager engine ID less than or equal to 12 bytes.		

Defect ID:	DEFECT000632469		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	Fastwrite
Symptom:	Standard processing of ELS PRLI causes open pending exchanges to be cleaned up. This will cause timeouts for all pending IOs		
Condition:	With an application that uses ELS PRLI Sequences with Image Pair established over an FX8-24 or 7800 FCIP Tunnel.		

Defect ID:	DEFECT000632526		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	CLI - Command Line Interface
Symptom:	After a TI zone is deleted, the routing selected by the deleted TI zone may still stay in effect.		
Condition:	This may be encountered as a function of specific topology.		

Defect ID:	DEFECT000632724		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Virtual Fabrics
Symptom:	Switch may suffer a "lfmd" daemon termination and kernel panic.		
Condition:	Run "Chassisdisable" CLI on a system with many logical switches.		

Defect ID:	DEFECT000632745		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	CLI - Command Line Interface
Symptom:	E and O wrap are skipped for Smart Optics SFPs.		
Condition:	This may be encountered when attempting to run D-port tests.		

Defect ID:	DEFECT000633126		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Hardware Monitoring
Symptom:	FrameLog does not appear to be working for unrouteable and unreachable.		
Condition:	After reboot a switch in a VF environment, when not all logical switch has framelog enabled		
Workaround:	Run "framelog --enable" after reboot		

Defect ID:	DEFECT000633498		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	CLI - Command Line Interface
Symptom:	SNMP audit interval reverts back to default of 60 minutes after code upgrade.		
Condition:	This is seen in a logical switch (LS) environment following a code upgrade.		
Workaround:	Manually set the auditinterval to default value (60) or the desired value using the CLI command: snmpconfig --set auditinterval < desired interval value>		

Defect ID:	DEFECT000633624		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Configuration Fundamentals
Symptom:	Root access level may be deleted when configuration file uploaded from FOS7.4.x is downloaded to FOS8.x		
Condition:	This may occur on all platforms		

Defect ID:	DEFECT000633739		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.2	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	User can set a negative value (up to -99999) for DAYS TO EXPIRE.		
Condition:	Occurs when executing CLI: mapsrule --config ALL_CERTS_DAYS_TO_EXPIRE -value -99999.		

Defect ID:	DEFECT000633775		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Virtual Fabrics
Symptom:	User may see detected termination of snmpd on GEN6 chassis.		
Condition:	This may be encountered when attempting to delete a logical switch.		

Defect ID:	DEFECT000633820		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	NTP - Network Time Protocol
Symptom:	Brocade FC5022 switches do not sync NTP after CMM upgrade.		
Condition:	This occurs following upgrade to CMM using SHA1 keys.		

Defect ID:	DEFECT000633848		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	CLI - Command Line Interface

Symptom:	Help page for CLI command passwdcfg needs update to the -charset value section.
Condition:	This is applicable only for the help page for the passwdcfg CLI command.

Defect ID:	DEFECT000633855		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	SNMP - Simple Network Management Protocol
Symptom:	The "swFCPortSpecifier" output in "swDeviceStatusTrap" does not correctly reflect the actual port number		
Condition:	This is encountered when using logical switches.		

Defect ID:	DEFECT000633978		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	IO Errors on FCIP FICON Extended devices.		
Condition:	When performing control unit maintenance on a FCIP FICON emulation extended device, short CU busy status is not correctly passed to the channel causing IO timeout IFCC.		

Defect ID:	DEFECT000634603		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	HA may go out of Sync on director or a switch may encounter a reboot, during firmware upgrade, due to cold termination.		
Condition:	This is a rare occurrence that may occur when the CP is in HA recovery stage, and subject to heavy system load, leading to cold termination.		
Recovery:	Reboot director to regain HA.		

Defect ID:	DEFECT000634964		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Access Gateway
Symptom:	Switch panic after a long up time in AG environment.		
Condition:	Small memory leak when running agshow CLI or BNA polling AG information in the background.		

Defect ID:	DEFECT000635286		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.1	Technology:	Port Bring-up
Symptom:	User might observe error counts increasing when running traffic through a 16G QSFP.		
Condition:	When traffic is running through 16G 2KM QSFPs connected between Gen5 directors. This only impacts FOSv8.0.x and v8.1.0a.		

Defect ID:	DEFECT000635739		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	High Availability
Symptom:	CP encountered kernel panic (Detected termination of mdd) during a firmware downgrade from FOS v8.1.0x to FOS v8.0.x.		
Condition:	This may occur on a switch running FOS v8.1.0x with an empty MAPS policy before the downgrade. Pre-FOS v8.1.0 downgrade is not impacted. The panic is addressed in FOSv8.0.2b and v7.4.2, but a subsequent migration to an un-fixed FOS v8.0.1x or v7.x will cause the MDD panic again. This will be fixed in FOSv8.1.0b so migrations from FOS v8.1.0b down will not be affected.		
Workaround:	Add a Rule to the MAPS Policy so it is not empty to avoid this panic.		

Defect ID:	DEFECT000635743		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Inband Management
Symptom:	Daemons terminate after reading corrupted frame buffer.		
Condition:	Issue is seen during a race condition when there is a frame trapped to CPU for handling or when there is multi-frame sequence received out of order or incomplete.		

Defect ID:	DEFECT000635804		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Loading MAPS policies and rules causes high memory utilization.		
Condition:	It can happen when BNA polls Advance Monitors System (AMS) group. In addition, memory can be exhausted within a few minutes		

	during Maps policy load when there is NPIV device port range configured in MAPS dflt_aggressive_policy.
Workaround:	Avoid to use port range in Maps policy configuration.
Recovery:	hafailover when memory is extremely low.

Defect ID:	DEFECT000635891		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	Management GUI
Symptom:	User is unable to access Brocade switch when using Webtools.		
Condition:	This is encountered when the user attempts to access the switch via 'IPv6 link local address' in Webtools.		

Defect ID:	DEFECT000636794		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Configuration Fundamentals
Symptom:	Configdownload may report the following message: /fabos/libexec/inetdUpdate: rm: command not found		
Condition:	This is a benign failure during a "rm file" operation seen during config download.		

Defect ID:	DEFECT000636851		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.2	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS CHASSISBAD_TEMP alert is not triggered on Brocade G620 switch.		

Condition:	This is observed on Brocade Gen 6 G620 switch.
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Defect ID:	DEFECT000637087		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Configuration Fundamentals
Symptom:	rpcd option in configure CLI is still present when there is VF configured.		
Condition:	When running configure CLI with VF, the following line is still available though non-functional: rpcd attributes (yes, y, no, n): [no]		

Defect ID:	DEFECT000637092		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.2.1	Technology:	Access Gateway
Symptom:	'ag --mapshow' output shows F_Ports on incorrect N_Ports with Failover/back enabled.		
Condition:	This is encountered on Access Gateway platforms. Besides fixing a bug, new CLI options to force failback is now provided.		

Defect ID:	DEFECT000637235		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	Fabrics may segment and head of line blocking of F-Class frames behind C3 frames may occur.		
Condition:	This may be encountered when an FCIP tunnel with moderate or aggressive compression enabled.		
Workaround:	Do not enable software compression on FCIP tunnel.		

Defect ID:	DEFECT000637431		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	IO Errors on FCIP FICON Extended devices		
Condition:	After FICON Emulation Device Discovery sequence is completed on a FICON emulation enabled tunnel, if the sequence that was issued after FICON Device Discovery receives a non-address specific status in response, the emulation generated status accept will include an OXID of 0xFFFF and the device will abort the status exchange.		

Defect ID:	DEFECT000637464		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Virtual Fabrics
Symptom:	User may encounter "Port X: portCfgPersistentEnable is successful But the port cannot be enabled." when attempting enable port with portcfgpersistentenable.		
Condition:	This is a very rare, corner case occurrence that may be encountered after moving a port to a logical switch and performing a portcfgpersistentenable on the port.		

Defect ID:	DEFECT000637701		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	NTP - Network Time Protocol
Symptom:	Switch may be unable to set the secondary NTP server following the failure of the primary NTP server synchronization.		
Condition:	This is observed when multiple NTP servers are configured and the Primary NTP server fails, for example due to shutdown.		

Defect ID:	DEFECT000637820		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.2	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS permits setting quiet time below minimum supported rate "EHT_MGMT_PORT_STATE" monitor.		
Condition:	This may be encountered on all platforms.		

Defect ID:	DEFECT000637863		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	BR7840 or SX6 Extension Tunnel stopped passing traffic causing extended sequences to timeout.		
Condition:	When one the tunnel is defined with either deflate or aggressive deflate mode for either FC or IP extension traffic, there are conditions that can lead to the compression engines stalling (causing the IO timeouts).		
Workaround:	Disable deflate or aggressive deflate compression on the tunnel for all protocols (or enable fast-deflate mode for the FC traffic flows and have no compression on the IP Extension flows).		

Defect ID:	DEFECT000638107		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Management GUI
Symptom:	Memory usage increased to over 75% within 5 or so days after an upgrade. Customer had to resort to "hareboot" to prevent a panic.		
Condition:	This results from a misbehaving device generating two frames at the same time which are nearly exactly the same (i.e same OX_ID, SEQ_ID, and FC_CTL bits), where the first frame is treated as a		

	single-frame sequence but the second frame is treated as a multi-frame sequence.
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Defect ID:	DEFECT000638134		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.0.2	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	16G platforms output 'rbash: SHLVL: readonly variable' error when user issues login command on admin/user privilege.		
Condition:	<p>On 16G switches, issue login via admin/user privilege:</p> <pre>sw0:FID128:admin> login rbash: SHLVL: readonly variable <----- sw0:FID128:user> login rbash: SHLVL: readonly variable <----- Root works as expected: sw0:FID128:root> login 32G was fixed in FOS v8.0.2a</pre>		

Defect ID:	DEFECT000638164		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	RDP implementation does not properly set the ?configured? bit in the Port Speed descriptor.		
Condition:	This may be seen on all platforms		

Defect ID:	DEFECT000638644		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.1	Technology:	Fibre Channel Routing
Symptom:	A proxy count mismatch and missing devices may be seen in		

	backbone switch.
Condition:	This may be encountered following the reboot of an edge switch in the edge fabric.

Defect ID:	DEFECT000638789		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.0.0	Technology:	Fibre Channel Services
Symptom:	Large accumulation of CRC errors over time was seen on core side of link when FX8-24 cards are installed in a DCX+. Usually these errors manifest as CRC with Good EOF.		
Condition:	Error conditions only occur on some customer configurations, but generally occur with high BE traffic loads on DCX+ and DCX-4S+ when FX8-24 cards are installed.		

Defect ID:	DEFECT000639154		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.2	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Setting extremely long (>31,000+ years) quiet time values, in MAPs leads to incorrect error message being displayed, and quiet time is only set to around 68 years.		
Condition:	This is seen on all platforms and stems from improper validation of the user supplied value against the maximum limit.		

Defect ID:	DEFECT000639516		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.1	Technology:	RADIUS
Symptom:	User can login to switch with root privilege when RADIUS is configured		

	as the authentication service.
Condition:	When remote user accounts on AAA server is configured with root role, users can login with root privilege under those accounts.
Workaround:	Remove remote user with root role on AAA server.
Recovery:	Do not configure user with root role on AAA server.

Defect ID:	DEFECT000639770		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may observe numerous [XTUN-1004] raslog messages "FTNL Tunnel Exchange aborted".		
Condition:	This may be encountered during extended I/O run with tape-pipelining, fastwrite and IPsec enabled.		

Defect ID:	DEFECT000639775		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.0	Technology:	CLI - Command Line Interface
Symptom:	An mdd crash may be observed on the active CP.		
Condition:	This occurs when ports are moved to a newly created logical switch (LS). Then ports are moved back to the default LS and the newly created LS is deleted.		

Defect ID:	DEFECT000639785		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.1	Technology:	Flow Vision
Symptom:	On an AMP monitoring 20,000 flows, the customer may face following error while executing <flow --show sys_mon_analytics>.		

	AMP1_114156:FID5:admin> flow --show sys_mon_analytics User defined Monitor flows are active on the chassis/LS: . Deactivate User defined Monitor flows to proceed
Condition:	Executing <flow --show sys_mon_analytics> with 20,000 learned flows.
Recovery:	1. Retry the flow CLI command after 30 seconds 2. flow --reset sys_mon_analytics

Defect ID:	DEFECT000639804		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	RLS from Fport to Nport sent without the Fport login to Nport first.		
Condition:	This is seen on all platforms when there is an RLS query.		

Defect ID:	DEFECT000639985		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	High CPU alerts are generated when custom (user-created) CPU monitoring rules are used in the active policy.		
Condition:	Active MAPS Policy should have user-created CPU monitoring rules.		

Defect ID:	DEFECT000640021		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	Software Installation & Upgrade
Symptom:	Auditcfg class state settings may not be retained after a FOS upgrade. All auditcfg classes may revert to enabled after upgrade.		

Condition:	This may be encountered on all platforms following a first upgrade from factory install.
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Defect ID:	DEFECT000640130		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	High Availability
Symptom:	Kernel panic after a software dead lock condition.		
Condition:	This is seen with FOS v8.x while monitoring and reporting hardware asic errors, such as asic parity error, CRC with Good EoF.		

Defect ID:	DEFECT000640442		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.3.1	Technology:	Port Bring-up
Symptom:	Link may not properly initialize and CRC errors or other link errors may be observed. In some cases the switch may also panic when attempting to read from non-qualified QSFPs.		
Condition:	Installing a non-qualified optic (QSFP or SFP) into Gen-5 DCX platform.		
Workaround:	Do not install non-qualified QSFPs or SFPs into the switch.		
Recovery:	The non-qualified QSFP or SFP should be removed from the system.		

Defect ID:	DEFECT000640577		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	Switch panic may be observed, resulting from fdmid daemon		

	termination.
Condition:	This occurs when there is application or a specific 3rd party storage polling frequently using FDMI register/deregister command, such as FDMI_GPAT. This results in Memory Leak in the fdmid daemon code.

Defect ID:	DEFECT000640591		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	Memory leak observed with webtools.		
Condition:	When using BNA and webtools to monitor the switches running FOS v7.4.2 or FOS v8.0.2b with FQDN.		
Workaround:	User can configure the FQDN again OR upgrade to avoid memory leak.		

Defect ID:	DEFECT000640646		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	User may see dual entry for same device wwn in FCR database.		
Condition:	This is a rare corner case situation encountered during warm recovery following a firmware upgrade.		

Defect ID:	DEFECT000640661		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	Upgrading a switch to FOS7.4.x or higher versions may result in degraded FCIP performance.		

Condition:	FCIP 20% performance degradation occurs when running in very specific configurations with certain IO profile. Issue exists in FOSv7.4.0 and later. Fixed in FOS7.4.2b, FOS8.1.2 and FOS8.2.0.
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Defect ID:	DEFECT000641083		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	User may observe a high CPU load due to high IO wait.		
Condition:	This may be observed in Gen5 systems due to pages_high watermark exceeding the available memory size, which leads to continuous page reclamation when free memory falls below low watermark, resulting in high IO wait time.		

Defect ID:	DEFECT000641533		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.1	Technology:	Port Bring-up
Symptom:	40GE QSFPs may encounter laser fault (instead of Mod_Inv) and drop traffic.		
Condition:	This may occur with Non Brocade branded 40GE QSFPs in the Gen6 chassis on extension blades.		
Recovery:	Remove the non branded part and replace the with a Brocade branded QSFP.		

Defect ID:	DEFECT000641680		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.1	Technology:	LDAP - Lightweight Directory Access Protocol

Symptom:	[SEC-3081], Certificate Validation Failed messages are seen for LDAP user when a server CA is not present.
Condition:	After code upgrade from FOS8.0.x to FOS8.1.1x.
Workaround:	Import valid certificates for syslog server.

Defect ID:	DEFECT000642431		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.1	Technology:	Analytics Monitoring
Symptom:	Harmless RASLOG indicating analytics message not forwarded is seen during reboot of AMP box .		
Condition:	Raslog 1730* seen on console when AMP is initializing. 1730 [CRIT] {0x5d1ea2d0} SE NOT ONLINE. Analytics message not forwarded		

Defect ID:	DEFECT000642610		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Software Installation & Upgrade
Symptom:	Observe the following console message during boot up: "* Cannot set system time because hwclock is invalid *" * Setting Hw clock to 2017-02-02 00:00:00 for Now * * Please fix it to the correct time ASAP. *"		
Condition:	This is seen when access to RTC fails at first attempt. This does not impact switch coming online nor does it impact traffic. Only time stamp is rolled back to 2017-02-02 00:00:00.		

Defect ID:	DEFECT000642778		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy

			Suite
Symptom:	'last 7 days' portion of the output from "mapsdb --show all" command may reflect altered in the output of ""mapsdb --show details - day xxx"		
Condition:	The alteration to the 'last 7 days' output occurs after "mapsdb --show details - day xxx" command is executed.		

Defect ID:	DEFECT000642851		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	D-Port - Diagnostic Port
Symptom:	dporttest "nframes" parameter does not match the rx and tx counters in portersshow output:		
Condition:	This may be encountered on Gen6 platforms		

Defect ID:	DEFECT000642975		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Hardware Monitoring
Symptom:	G610 ports fail to come up at 16G speed.		
Condition:	Sometime after switch reboot or port disable and enable, a G610 port configured with 16G speed fails to come up.		
Workaround:	Enabling TTS mode on the G610 16G port can recover the port.		

Defect ID:	DEFECT000643334		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	After running for an extended period of time, XTUN-1000 RASLOGs		

	and other issues (potentially BLS-5024 DP Panic) may be seen.
Condition:	After running for a long period of time in an FCIP FCR configuration, the DP WQE buffer pool is depleted (2.5 million are lost in 70 days in a large FCR configuration (>> 10,000 imported SID/DID pairs). The pool is initialized with 7.5 million WQE buffers. So it would take about 210 days to consume the entire pool.
Workaround:	Reboot the blade/switch before 210 days have passed in a large FCIP FCR configuration.

Defect ID:	DEFECT000643662		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	User may be unable to configure IPv6 gateway with gateway's Global Address and also unable to ping/ssh to Brocade Switch after configuring the IPv6 gateway address with the gateway's Link Local address.		
Condition:	This is encountered when user configures IPV6 gateway address.		
Workaround:	Add static ipv6 IP as route first and then add the same as default route to resolve this issue.		

Defect ID:	DEFECT000643735		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Configuration Fundamentals
Symptom:	When creating zones with special characters (- _ ^) an error is reported suggesting 'Enhanced Zone Object Naming Feature not supported by the fabric'.		
Condition:	The following error will be seen using cfgcreate command. Error: Enhanced Zone Object Naming Feature not supported by the fabric. Please verify that all switches in the fabric are running a version of FOS that supports this feature. Use 'fabricshow -v' to determine the firmware version of switches in the fabric.		
Workaround:	Make sure Active and standby CP are with same firmware and do		

	Hafailover on the newly upgraded chassis.
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Defect ID:	DEFECT000643888		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	Training/Debug messages are seen when portloopback test is executed on Brocade G610 switch.		
Condition:	This is observed when portloopback test is run on Brocade G610 switch.		

Defect ID:	DEFECT000644043		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	Customer may encounter CRC with good EOF error.		
Condition:	These errors may be encountered on FC8-64 port blade in DCX+.		

Defect ID:	DEFECT000644055		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	Extended Fabrics
Symptom:	An unexpected Reference Count mismatch warning may be observed following a slotpoweroff.		
Condition:	This is encountered, following a slotpoweroff of a blade, only in Gen 6 chassis.		

Defect ID:	DEFECT000644778
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Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	User Accounts & Passwords
Symptom:	User may encounter multiple panics of secd following a distribution of the password database.		
Condition:	This is seen when distributing password due to a memory leak.		

Defect ID:	DEFECT000644804		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.0	Technology:	Buffer Credit Management
Symptom:	Long distance ISLs between two switches may encounter credit issues and generate C2-5829 raslog messages.		
Condition:	This may occur following the use of FCping command with E port with long distance vc init 0 mode.		
Workaround:	Do not run the fc ping command with E port with Long distance vc init 0 mode.		

Defect ID:	DEFECT000645402		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	Termination of SNMP daemon causes HA out of sync.		
Condition:	This results from an SNMP request with invalid port number.		

Defect ID:	DEFECT000645670		
Technical Severity:	High	Probability:	Medium

Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Virtual Fabrics
Symptom:	AMP LS is unable to merge with the edge fabric due to "Chassis Zone DB Size Exceeded" error, even though there is enough available memory in the cfgsize.		
Condition:	This occurs when the source switch zone db size is close to or greater than 1MB.		
Workaround:	Reboot AMP when creating a new LS and source switch zone db size is close to or greater than 1MB.		

Defect ID:	DEFECT000645744		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may encounter a DP Panic with BLZ-5024 FFDC on gen 6 SX6 blades.		
Condition:	This is seen on a gen6 SX6 blade when tunnel is down.		

Defect ID:	DEFECT000645941		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	When an E port cable is disconnected, the MAPS object of that port may sometimes show as "Online-Port"		
Condition:	This is encountered in MAPS during debounce handling of a port.		

Defect ID:	DEFECT000646248		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management

Reported In Release:	FOS8.0.2	Technology:	Management GUI
Symptom:	"Inherited FID" is not shown in the Switch info panel in webtools		
Condition:	This is encountered in a LS enabled setting.		

Defect ID:	DEFECT000646285		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	Customer may encounter RDP responses from switch being split across two frames, resulting in issues with HBA drivers.		
Condition:	This occurs when the switch responds to RDP ELS request with multiple frames if the payload is greater than 256-bytes and running FOS v8.1.x. This does not apply for FOS v7.x and v8.0.x		
Recovery:	No recovery is needed as this operation does not adversely affect switch or fabric stability.		

Defect ID:	DEFECT000646307		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Management GUI
Symptom:	Launching Webtools may lead to failure from SSL Handshake alert of "unrecognized_name".		
Condition:	This may be encountered with HTTPS & Fully Qualified Domain Name (FQDN).		

Defect ID:	DEFECT000646427		
Technical Severity:	Low	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.0	Technology:	MAPS - Monitoring and Alerting Policy

			Suite
Symptom:	User may observe a constant stream of the following raslog message: [MAPS-1003], 58409, FID 128, WARNING,, SFP 34, Condition=ALL_OTHER_SFP(CURRENT>=50), Current Value:[CURRENT,50 mAmps],		
Condition:	These MAPS Messages are triggered by ELWL SFP type 57-1000262-01 when plugged into the switch at Default Config.		

Defect ID:	DEFECT000646456		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Configuration Fundamentals
Symptom:	configdownload of a prior uploaded config file, fails to restore the quiet_time config key parameters that are modified using "rasAdmin --quiet " command.		
Condition:	This is encountered following a configdownload with differing quiet_time config key parameters.		

Defect ID:	DEFECT000646458		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	Customer may encounter continuous Switch crashes and unable to collect supportsave.		
Condition:	In a setup with persistent PID enabled, when a new device desires a certain PID to WWN mapping, but that PID is being currently assigned to another port that is online. This only impacts FOS8.1.0 and later.		

Defect ID:	DEFECT000646620		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In	FOS8.2.0	Technology:	FCIP - Fibre Channel

Release:			over IP
Symptom:	Supportsave on BR7840 does not collect CEEDEDEBUG data.		
Condition:	This is an issue with Supportsave collected on BR7840,		

Defect ID:	DEFECT000646733		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	FCIP devices tunnel/circuits may go in and out of degraded state.		
Condition:	This is observed when routers are replaced and in this situation the padded bytes are left with random values.		

Defect ID:	DEFECT000646800		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	IPEX connection with SRDF fails to establish with "NULL VLAN ID in SYN packet:" message.		
Condition:	This was encountered on a tunnel with IPEX configured.		

Defect ID:	DEFECT000646804		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	When 32G 57-1000351-01 Breakout QSFP is connected to 32G SFP and switchdisable/enable on the SFP side may cause misconvergence to N16.		
Condition:	The misconvergence to N16 occurs after the introduction of 32G Breakout 57-1000351-01 QSFP. There is no issue between Non		

	Breakout 32G 57-1000331-01 QSFP to 57-1000351-01 QSFP.
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Defect ID:	DEFECT000646833		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	During detach/Attach of Host to Brocade switch running 8.1.x, the PLOGI fails to complete.		
Condition:	This is encountered under use of Common Transport IU (CT_IU) Extended Frame Header.		

Defect ID:	DEFECT000647090		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	FICON Channel and device nodes are not listed as members in the MAPS "logicalgroup --show" CLI output under ALL_OTHER_F_PORTS as expected.		
Condition:	This is encountered under the following conditions: 1. In Secure FICON fabric, with FICON channels and devices logged into the switch. 2. MAPS (mdd) daemon is restarted (HCL, hafailover, reboot, hareboot, power-cycle, or mdd panic/restart)		
Workaround:	The nodes are correctly added back to the ALL_OTHER_F_PORTS logical group when the switch ports to which they are attached are disabled/enabled, or the modes are otherwise forced to log back into the fabric.		

Defect ID:	DEFECT000647333		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In	FOS8.1.0	Technology:	MAPS - Monitoring

Release:			and Alerting Policy Suite
Symptom:	When user attempts to clone RoR rules, the CLI command returns "Specified group does not exist."		
Condition:	This is encountered when user attempts to clone MAPS RoR rules via the "mapsrule --clone" CLI.		

Defect ID:	DEFECT000647361		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	Combination of the occurrence of the following RASLOGs XTUN-1001 with "FTNL Tunnel 24 Memory allocation failed tracker 3" and XTUN-1008 where memory usage is greater than 75%.		
Condition:	In an FCIP 7840 or SX6 configuration with many SID/DID pairs traversing the FCIP Tunnel. The 7840 and SX6 each have 2 DPs and each DP has 1.2 Gigabytes of control block memory. The XTUN-1001 RASLOG with tracker 3 indicates that the control block memory allocation failed. In the customer case, they failed after about 9,900 SID/DID pairs were discovered on the tunnel (each with 6 LUNs).		
Workaround:	Limit the number of SID/DID pairs that flow through one FCIP DP. Use logical switches create 2 VE ports (one on DP0 e.g. VE 24 and one on DP1 e.g. VE34) and split the flows over both DPs. Monitor XTUN-1008 RASLOGs and adjust configuration as necessary.		

Defect ID:	DEFECT000647758		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	After a reload, the message "HW error: Unexpected CP change intr" may be seen on the console, followed by an unexpected reboot of the CP.		
Condition:	This symptom will only be seen in systems that have an SX6 blade installed.		

Defect ID:	DEFECT000647906		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	Extended Fabrics
Symptom:	UDP IO fails to start after the HCL completion.		
Condition:	This issue is specific to UDP traffic where sometimes UDP traffic is sent on the backup tunnel instead of main tunnel after HCL.		

Defect ID:	DEFECT000647922		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	Hardware Monitoring
Symptom:	<p>User will see Raslog C4-1010 being logged continuously, with no other impact. Further inspection of internal raslog will reveal this unique signature: [C4-5672], , ERROR, , S7,C0: FTB block 1st = 0x20, intr_cause = 0x100</p> <p>User may also encounter switch panic following the repeated logging of Raslog C4-1010.</p>		
Condition:	This is a rare occurrence observed when there is asic parity error on frame statistics memory block. This only impacts 32G platforms.		
Recovery:	A power cycle usually clears parity errors.		

Defect ID:	DEFECT000647935		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.0	Technology:	Port Bring-up
Symptom:	User does not see any warning raslog message generated when the maximum configured NPIV login limit (defined by the command portcfgnpiport --setloginlimit <slot/port>) is exceeded.		
Condition:	SWCH-1045 and SWCH-1046 raslogs messages are now added to warn user when max NPIV login limit is reached/exceeded.		

Workaround:	Rely on the MAPS notifications.
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Defect ID:	DEFECT000648118		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	AG devices may not show up in "agshow" output and therefore not be discovered in BNA.		
Condition:	This may be encountered when AG switch is connected to director with shared-area ports.		

Defect ID:	DEFECT000648243		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	Panic may occur after getting error: "XTUN-1001 "FTNL Tunnel 16 Memory allocation failed tracker 3/" and potential BLS-5024".		
Condition:	When 7800 or FX8-24 DP FCIP Control Block memory pool is empty or does not have large enough buffers to allocate a control block.		

Defect ID:	DEFECT000648352		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Virtual Fabrics
Symptom:	Blade goes into FAULTY(21) during testing.		
Condition:	This is encountered on 32G blades only after user performs logical switch port movement, creation and deletion operations in a loop.		

Defect ID:	DEFECT000648483		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Software Installation & Upgrade
Symptom:	Raslog FCPH-1007 triggered FFDC		
Condition:	A timing condition when the FC sequence is being flushed after it is put on the transmit queue. The sequence is a response to a received request. The flush is a result of an ABTS which comes in at the same time as the originally received request.		

Defect ID:	DEFECT000648538		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	User may observe non-stop maps alerts.		
Condition:	"ETH_MGMT_PORT_STATE, UP?" is reported repeatedly when there is change in management port and dflt_conservative_policy is active in switch.		

Defect ID:	DEFECT000648576		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	D-Port - Diagnostic Port
Symptom:	User may encounter D-port test failure with "Protocol error".		
Condition:	The "Electrical loopback" test failure with "Protocol error" is seen for certain type of smart optics.		

Defect ID:	DEFECT000648606		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.3.2	Technology:	FCIP - Fibre Channel over IP
Symptom:	BLS-5024 DP Panic occurs after Tunnel Down event.		
Condition:	When an FCIP Tunnel fails with pending FCIP Batches in progress, there is a chance that tunnel down processing could incorrectly free system buffers that should still be in use.		

Defect ID:	DEFECT000648629		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	User may observe CRC with good EOF on G620.		
Condition:	Issue may be seen on G620 with certain smart optics.		

Defect ID:	DEFECT000648860		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	ISL - Inter-Switch Linking
Symptom:	After the trunk master goes offline, the links on the remote end of a trunk may show invalid values for the deskew.		
Condition:	This is seen when the trunk master goes offline and the remote end switch had performed an hafailover some time prior to this.		

Defect ID:	DEFECT000648895		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	High Availability
Symptom:	Switch panic due to out of memory.		
Condition:	During stress test, reboot several switches in the fabric at the same time triggered panic. Added code for more efficient memory allocation for zoned.		

Defect ID:	DEFECT000648991		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	Optical loopback test failed with -nframe and -framesize option.		
Condition:	Failure is seen on smart optic SFPs, but not on normal SFPs.		

Defect ID:	DEFECT000649143		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.1.2	Technology:	Port Bring-up
Symptom:	Gen 6 switches do not display "Disabled (Port Throttled)" per switchshow.		
Condition:	Issue happens on Gen 6 platforms only. Unstable ports may not be throttled. But it won't affect switch performance because Auto-Speed-Negotiation is not CPU intensive on Gen 6 platforms.		

Defect ID:	DEFECT000649242		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management

Reported In Release:	FOS8.2.0	Technology:	High Availability
Symptom:	Observed FFDC after hafailover in FCPH module.		
Condition:	The problem is observed in a setup with a lots of ABTS during RTWR timeout after intentionally remove route via portcfgtrunk disable.		

Defect ID:	DEFECT000649808		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	Extension Tunnel state indicated as HA-Offline even though all HA tunnels display as online in portshow fcipunnel -ch output.		
Condition:	This is seen after an FCIP Hot Code Load upgrade completed with errors that resulted in VE recovery to complete the upgrade.		
Recovery:	Contact support to determine if there is a work around. There are some cases that can be recovered without a switch reboot.		

Defect ID:	DEFECT000649898		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.0.2	Technology:	ISL - Inter-Switch Linking
Symptom:	"Fabric unstable" may be observed along with LISL going offline/online.		
Condition:	This may be encountered when a parallel upgrade of all switches in the fabric is performed using BNA.		
Workaround:	Do not perform parallel upgrade when there are fixed port switches in the fabric.		

Defect ID:	DEFECT000650052		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Virtual Fabrics
Symptom:	Switch panics after mdd terminates.		
Condition:	Create and delete LS in a loop, eventually mdd panics after running out of file descriptors.		

Defect ID:	DEFECT000650244		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	Automated WAN Tool session without a timeout value configured remains in a Passed state after configured Run Time completes.		
Condition:	This issue is caused by the Automated WAN Tool session failing to notify the remote peer that the local Automated WAN Tool session has completed.		
Workaround:	Manually stop the Automated WAN Tool session using the 'portcmd --wtool <WT-ID> stop' command		

Defect ID:	DEFECT000650786		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.2.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Enhancement code to generate RASlog alert to warn users that BE er_crc can be caused by upstream parity errors.		
Condition:	After a short burst of FDS parity error observed on a blade, large number of crc errors is observed on peer blade back-end port.		
Recovery:	Power-down/replace the FDS parity blades.		

Defect ID:	DEFECT000650817		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Virtual Fabrics
Symptom:	Observed "Oops: Kernel access of bad area, sig: 11 [#1]"		
Condition:	This occurs during logical switch object manipulation and chassisdisable test which causes memory leak.		

Defect ID:	DEFECT000650921		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	User may encounter host not able to discover zoned target.		
Condition:	This occurs due to a race condition, where FLOGIN ACC is sent before route setup completes. This should impact following releases: FOS8.1.0a,b,c and FOS8.0.2b,c. It's a regression of defect 603168.		

Defect ID:	DEFECT000651076		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may encounter DP becoming unresponsive on extension platforms.		
Condition:	This results from a race condition during route gateway manipulation. If an IP Route is modified while it is being used, this race condition may occur.		
Workaround:	Ensure IP Route is not in use before modifying.		

Defect ID:	DEFECT000651598		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Hardware Monitoring
Symptom:	User may encounter both core blades moved to faulty state and switch becoming disabled.		
Condition:	This happens when both core blades run into a faulty state simultaneously. The fix will only fault one core at anytime.		

Defect ID:	DEFECT000651738		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	CRC with good EOF error may be observed.		
Condition:	These errors may be encountered on FC8-64 port blade in 8510-8 chassis only.		

Defect ID:	DEFECT000651760		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	Zoning
Symptom:	Software verify error detected in zoning daemon during standby CP reboot.		
Condition:	Triggered a timing condition when there is a large number of logical switches configured. Software will retry without impact to system.		

Defect ID:	DEFECT000651764		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring

Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPs category name and violation triggered events category name in CLI is not the same .		
Condition:	This applies to Extension GE Port Health category only.		

Defect ID:	DEFECT000651913		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	User Accounts & Passwords
Symptom:	Creation and deletion of accounts takes a long time and ends up being unsuccessful.		
Condition:	This may occur sometimes when using the CLI command "userConfig --add or --delete" .		

Defect ID:	DEFECT000651962		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Unclear raslog message description in RAS-1003 on Gen5 platforms.		
Condition:	When taking supportsave and specifying ftp parameters as user: anonymous, and password: BLANK, it reports: [RAS-1003], 479, CHASSIS, ERROR, , Trace dump was not transferred due to supportftp setting is conflict with cfgload attribute		

Defect ID:	DEFECT000651997		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.2	Technology:	FCIP - Fibre Channel over IP

Symptom:	One or more XTUN-1008 RASLOGs followed by tunnel down notifications at the peer switch and BLZ-5024 RASLOGs on the impacted switch.
Condition:	Server with NPIV connections to fabric is frequently logging in and out of the fabric and issuing PLOGIs/PRLIs to devices over an FCIP Tunnel. Each PLOGI/PRLI has a new SID as the NPIV PID normally changes at each fabric login.

Defect ID:	DEFECT000652098		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	CLI - Command Line Interface
Symptom:	Man page states that MAPS rule length is limited to 40 characters while it was increase to 72 characters in FOSv8.1.0 and later.		
Condition:	Run " help mapsrule".		

Defect ID:	DEFECT000652145		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	One or more logical switch may result in "Error in Packet. Reason: NoAccess" during SNMP activity.		
Condition:	When performing an snmpwalk/snmpget with SNMPv3 to a logical switch in a chassis.		

Defect ID:	DEFECT000652252		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals

Symptom:	User may observe ?FSPF experiencing link issues? and ?Fabric Hello Timeout: Inter-switch Frame Delivery problem? on switch.
Condition:	This occurs when a VE port is disabled, but the link does not go down fully. This only applies to IP extension platforms.

Defect ID:	DEFECT000652508		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	D-Port - Diagnostic Port
Symptom:	Physical Layer errors / issues (crc errors, link resets, etc...) may be encountered		
Condition:	These may be observed on 16G SWL optics with serial number (HAA) that have gone through Dport testing.		
Recovery:	<p>No action needed for a port that has never gone through D-port testing.</p> <p>For a port that has gone through D-port testing, after upgrading the code to a release with fix, run:</p> <pre>portdisable <port> portdporttest --reset -module <port> portenable <port></pre>		

Defect ID:	DEFECT000653066		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.2	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may be unable to bring up IPEXT traffic on Brocade 7840.		
Condition:	This may occur on Brocade 7840 with WAN and LAN ports in same subnet.		
Workaround:	Put the SVI addresses for the LAN ports in a different subnet than the WAN ports.		

Defect ID:	DEFECT000653151		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.0	Technology:	FICON
Symptom:	Ficon daemon ficud panics while running CUP Diags workload in fabric with mixed firmware versions.		
Condition:	This occurs in a fabric with more than six domains in the IDC query path, with about 10 or 15 ingress and egress ports and the query is a reverse query where the source domain sends the final QOM data from one domain to another.		

Defect ID:	DEFECT000653185		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	FICON
Symptom:	Out of memory (OOM) is observed in FICON setup followed by switch panic.		
Condition:	This may occur when the neighbor switches are rebooted repeatedly. CUP ports do not free the memory used for handling domain unreachable ioctl.		

Defect ID:	DEFECT000653363		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.3.2	Technology:	Hardware Monitoring
Symptom:	Switch may encounter "Software Fault"/"Kernel Panic" triggered by too many memory parity interrupts from the 16G ASIC encryption block		
Condition:	Memory parity errors are rare. This panic may occur on a 16G switch, if memory parity errors are encountered when ASIC encryption is not enabled.		
Recovery:	Usually recovers after a panic. If it persists, please replace blade.		

Defect ID:	DEFECT000654235		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	SSH - Secure Shell
Symptom:	customer is unable to perform the operations of genhostkey,delhostkey and showhostkey using sshutil command		
Condition:	This is a request for enhancement to the sshutil command		

Defect ID:	DEFECT000654435		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	User Accounts & Passwords
Symptom:	User defined Roles creation/deletion takes a long time and interface becomes unresponsive.		
Condition:	Occurs while running CLI command "roleconfig".		

Defect ID:	DEFECT000654575		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Software Installation & Upgrade
Symptom:	FOS Message Reference manual for 8.1.x shows "<printf>" instead of the valid description/text:		
Condition:	This is seen for raslog descriptions for C3-1001 and C4-1001 error messages		

Defect ID:	DEFECT000654814		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	Observed memory leak in fdmid.		
Condition:	Occurs while running a switch reboot loop stress test.		

Defect ID:	DEFECT000655246		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Routing
Symptom:	The user may observe minor overall performance degradation following a core blade down/up event on Gen6 SAN directors. However, if ICL connections are present, user may encounter connection failure between devices.		
Condition:	This may occur when a core blade is re-seated, replaced, or power cycled, on a Brocade Gen6 SAN director with FC32-48 blade, that has previously been upgraded/downgraded between FOS8.0.x and FOS8.1.x, some backend routes between the core and FC32-48 blade may be adversely impacted		
Workaround:	<p>? No action is needed if the director was never upgraded/downgraded between FOS v8.0.x and v8.1.x.</p> <p>? If the director was previously upgraded/downgraded between FOS8.0.x and FOS8.1.x, then a cold reboot will fully clear the condition and user will not encounter this consequence again as long as it is not subsequently upgraded/downgraded across FOS8.0.x and FOS8.1.x.</p>		
Recovery:	If the impacted director switch has been through previous upgrade/downgrade between FOS8.0.x and FOS8.1.x, then first cold reboot the switch to remedy the impacted routes and then upgrade to FOS8.1.2. Otherwise just upgrade to FOS8.1.2		

Defect ID:	DEFECT000656422		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	Webtools client launch will be blocked by Java Security.		
Condition:	This occurs when the Java code signing certificate in the running FOS version expires		
Workaround:	<p>Users can add the Webtools URL to Exception Site List under the Security tab of the Java Control Panel and disable signed code certificate revocation checks. This will allow it to run after presenting some security warnings.</p> <p>How to manage and configure Exception Site List: https://www.java.com/en/download/faq/exception_sitelist.xml And disable signed code certificate revocation checks under "Advanced" tab</p>		

10.4 Closed Without Code Changes in Fabric OS 8.2.0

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of November 30, 2017 in version 8.2.0.

Defect ID:	DEFECT000512746	Technical Severity:	Medium
Reason Code:	Will Not Fix	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.3.0	Technology:	Flow Vision
Symptom:	A WWN based flow will not be deactivated automatically, when the WWN of the generator port is changed using the command 'fapwwn'.		
Condition:	WWN of the generator port is changed using the command 'fapwwn'.		
Recovery:	Deactivate and activate the flow manually.		

Defect ID:	DEFECT000549628	Technical Severity:	Medium
Reason Code:	Will Not Fix	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.3.1	Technology:	Hardware Monitoring
Symptom:	Panic may be seen if POST tests are interrupted by a supportsave operation.		
Condition:	Issue happens when supportsave is triggered in the middle of POST tests or vice versa.		
Workaround:	Supportsave to be executed at the end of post tests.		

Defect ID:	DEFECT000577686	Technical Severity:	Medium
Reason Code:	Will Not Fix	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.0.2	Technology:	Encryption
Symptom:	Certain 3rd party HBA hosts connected to a regular FC switch, talking to Virtual Targets connected to BES FC switch can see a traffic issue.		

Condition:	This issue could occur only with a specific 3rd party HBA that does not handle all the RSCNs sent by FC switch properly.
Workaround:	Connect host directly to BES switch.

Defect ID:	DEFECT000591120	Technical Severity:	High
Reason Code:	Will Not Fix	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	Hardware Monitoring
Symptom:	PCIe errors and panic followed by a CP reboot.		
Condition:	Issue will be observed if there is abrupt failure on the port/core blade.		
Workaround:	Have to rely on the HA.		
Recovery:	Confirm port and core blades are powered on		

Defect ID:	DEFECT000592498	Technical Severity:	Medium
Reason Code:	Will Not Fix	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.2.1	Technology:	Hardware Monitoring
Symptom:	In a very less likely case, one bad slot that lost power could also cause a panic & reboot when CP tries to access it. RAS message observed: 2016/03/09-19:49:51:055731, [HAM-1004], 33032/24698, SLOT 6 CHASSIS, INFO, ED_DCX8510_8B, Processor rebooted - Software Fault:Kernel Panic., OID:0x003e0006, reboot.c, line: 99, comp:hamd, ltime:2016/03/09-19:49:42:597835		
Condition:	Can occur only on a chassis based system.		

Defect ID:	DEFECT000592979	Technical Severity:	Medium
Reason Code:	Feature/Function Not Supported	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.2.1	Technology:	RAS - Reliability, Availability, and

			Serviceability
Symptom:	The switch is observed to have been rebooted with a reason of "Software Fault:ASSERT"		
Condition:	Multiple ports going offline/online at the same time		
Workaround:	During maintenance of ports, minimize the number of ports going offline and online at the same time.		

Defect ID:	DEFECT000600088	Technical Severity:	Medium
Reason Code:	Feature/Function Not Supported	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.0.2	Technology:	Configuration Fundamentals
Symptom:	IP address assignment failed on embedded switch. Leaving the switch with ipaddress of 0.0.3.0 and 0.0.0.0.		
Condition:	This is observed on Brocade 5480 during a DHCP server restart.		

Defect ID:	DEFECT000618484	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	Blade swap will not be reflected in Hardware view of WebTools		
Condition:	For DCX+ chassis		
Workaround:	Reopening WebTools session		

Defect ID:	DEFECT000619851	Technical Severity:	High
Reason Code:	Feature/Function Not Supported	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals

Symptom:	The following FCIP statistics will not be displayed in WebTools: InCompressedOctets InUncompressedOctets OutCompressedOctets OutUncompressedOctets
Condition:	The issue is seen on FCIP setups that have compression enabled.

Defect ID:	DEFECT000620811	Technical Severity:	High
Reason Code:	Feature/Function Not Supported	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Management GUI
Symptom:	Name server data is not populated on the device side after the firmware upgrade. Also FICON RNID data disappears after firmware upgrade.		
Condition:	One of the following upgrade scenarios on a Brocade 7800 switch: - 7.3.x to 7.4.1x. - v7.2.x to v7.3.x. - v7.1.x to v7.2.x. - v7.0.x to v7.1.x.		
Workaround:	Bounce storage ports.		
Recovery:	Bounce the storage ports.		

Defect ID:	DEFECT000623020	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Management GUI
Symptom:	Port Error details tab doesn't appear in WebTools Port Admin.		
Condition:	When first blade in the chassis is faulty due to unsuccessful firmware download.		
Recovery:	Recover the faulty blade.		

Defect ID:	DEFECT000623930	Technical Severity:	Medium
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Reason Code:	Not Reproducible	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Access Gateway
Symptom:	Stale entries visible in FDMI show on core access gateway.		
Condition:	In this case FDMI data base entries are not cleared in core access gateway switch after disabling edge access gateway switch in cascaded AG topology.		

Defect ID:	DEFECT000625537	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	In swFCPortScn trap,VE-Port is displaying as E-Port for swFCPortBrcdType varbind.		
Condition:	While sending the swFCPortScn trap		
Workaround:	Correct object is listed as VE port in MIB walk, but a state change of the VE port will generate the invalid port type. After Trap is generated the correct information is available for query.		

Defect ID:	DEFECT000625758	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	In Chassis switches, if there is (are) any faulty SFP's, then after HA failover MAPS triggers SFP_IN alert followed by SFP_FAULTY.		
Condition:	Switch needs to have unsupported SFPs plugged in.		

Defect ID:	DEFECT000627183	Technical Severity:	High
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Reason Code:	Not Reproducible	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Services
Symptom:	Switch in Access Gateway Mode goes for a reboot.		
Condition:	Occasionally when a edge chassis switch is changed from non VF to VF mode, the Access Gateway switch connected to the edge chassis may crash.		

Defect ID:	DEFECT000628050	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Configuration Fundamentals
Symptom:	A harmless VERIFY error message may occur on a ISL link during encryption process.		
Condition:	A VERIFY error related to a file operation may occur when CLI and Brocade Network Advisor are accessing the same switch at the same time.		

Defect ID:	DEFECT000628444	Technical Severity:	High
Reason Code:	Not Reproducible	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	There is a spike difference seen in RD1RespTime measure when BNA polls within short period of time.		
Condition:	The difference in previous and current RD1RespTime measure is calculated in each polling cycle in BNA application. There is a difference seen in this measure when BNA polled frequently.		
Workaround:	Increase the polling interval in BNA.		

Defect ID:	DEFECT000631969	Technical Severity:	High
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Reason Code:	Already Fixed in Release	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.2	Technology:	FCIP - Fibre Channel over IP
Symptom:	Continuous remote FC I/O errors: a FC analyzer will show missing sequences and FC frames with CRC errors.		
Condition:	When Fast Write and/or Open Systems Tape Pipelining and Fast Deflate compression is enabled on a FCIP Tunnel. This problem is only in FOS8.0.2a on BR7840/SX6.		
Workaround:	Do not upgrade to FOS8.0.2a on BR7840/SX6		

Defect ID:	DEFECT000632637	Technical Severity:	High
Reason Code:	Will Not Fix	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.1	Technology:	FIPS - Federal Information Processing Standards
Symptom:	User may be unable to export certificate to remote server using FTP with the CLI command seccertutil, resulting in the error message "Fips mode is active. Use SCP for file transfer...".		
Condition:	This may be encountered when FIPS mode is disabled.		

Defect ID:	DEFECT000634005	Technical Severity:	Medium
Reason Code:	Will Not Fix	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.2	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	There is a discrepancy between the documentation and the actual CLI for MAPS policy creation on max policy name length.		
Condition:	This is seen when attempting to create a maps policy with policy name length of 32 characters.		

Defect ID:	DEFECT000637928	Technical Severity:	Medium
Reason Code:	Feature/Function Not Supported	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	CLI command passwddefault results in the following error message ""Error: Invalid option specified, see the usage."" even though passwords are successfully set to default.		
Condition:	This is seen on all platforms when CLI command passwddefault is run. It is caused by an RBAC permission issue.		

Defect ID:	DEFECT000639831	Technical Severity:	High
Reason Code:	Already Fixed in Release	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Port Bring-up
Symptom:	DCX experienced unexpected rolling reboot, resulting in a cold recovery for the switch.		
Condition:	Installing an unsupported QSFP into the core blade of the Gen-5 DCX. It impacts FOS v7.3.1 and above, FOS v7.4.0 and above, and Pre-FOS v8.0.2 on FOS v8.x.		
Workaround:	Do not install unsupported QSFP optics into the switch.		
Recovery:	The unsupported QSFP needs to be removed to prevent any additional reboots.		

Defect ID:	DEFECT000639880	Technical Severity:	Medium
Reason Code:	Already Fixed in Release	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Raslog messages prior to switch power cycle disappeared.		
Condition:	It happens after a switch power cycle, or sometime a panic. It seems to occur more with FOSv7.4.x;		

Defect ID:	DEFECT000643278	Technical Severity:	High
Reason Code:	Already Fixed in Release	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	Changing the IP address of eth0 may lead to loss of management access to the switch.		
Condition:	This is encountered when IPFC addresses are set.		

Defect ID:	DEFECT000647952	Technical Severity:	Medium
Reason Code:	Not Reproducible	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	CLI command portperfshow ?t 10 may return transient value spikes that are exceedingly high.		
Condition:	This may be observed when traffic is stopped suddenly and TX/RX words become zero and there are no control frames.		

Defect ID:	DEFECT000651310	Technical Severity:	High
Reason Code:	Already Fixed in	Probability:	Medium

	Release		
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	Extended Fabrics
Symptom:	IP Extension traffic stops flowing after a high number of extension tunnel bounces even though the tunnel is up.		
Condition:	An IP Extension enabled tunnel that is carrying IP Extension traffic that is bouncing frequently may lead to a condition where the IP Extension traffic can no longer pass through even though the tunnel is up.		
Recovery:	Reboot the affect blade or switch.		

Defect ID:	DEFECT000653457	Technical Severity:	High
Reason Code:	Feature/Function Not Supported	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.2	Technology:	FCIP - Fibre Channel over IP
Symptom:	Firmwaredownlaod failed from FOS v8.1.x to FOS v7.4.x with the following message: Downgrade is not allowed because access time range is configured for one or more user accounts. Please delete the access time configuration of the user account using "userConfig --change <username> -at 00:00-00:00" or delete the user account using "userConfig --delete <username>". Please ensure that access time is not configured for any accounts by executing "userConfig --show -a" command before proceeding further Executing the suggested command does not resolve the problem.		
Condition:	This happens when access time is configured for accounts		

10.5 Open Defects in Fabric OS 8.2.0

This section lists open software defects with Critical, High, and Medium Technical Severity as of November 30, 2017 in version 8.2.0

Defect ID:	DEFECT000470634		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring

Reported In Release:	FOS7.2.0	Technology:	Flow Vision
Symptom:	A static and a learning flow cannot monitor the same traffic at two ports on the same chip.		
Condition:	A static and a learning flow created on same chip where the traffic on the static flow is a subflow for the learning flow.		

Defect ID:	DEFECT000509850		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.3.0	Technology:	Management GUI
Symptom:	Unable to view the current updated FCIP details after clicking Refresh Now Option.		
Condition:	Changes to the FCIP tunnels in the 7840 platform are not updated in the WebTools views.		
Workaround:	Navigate to another tab and return to see the updated values of FCIP Tunnel.		

Defect ID:	DEFECT000537487		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.0	Technology:	Management GUI
Symptom:	When the IP address is provided for specific logical switch context, the default switch context will be launched.		
Condition:	Launching WebTools for logical switch context which has IPFC and subnet mask address configured.		
Workaround:	Launch WebTools for the default switch context and navigate to specific logical switch context.		

Defect ID:	DEFECT000548803		
Technical Severity:	Medium	Probability:	Low

Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.1.1	Technology:	Zoning
Symptom:	After an offline/online event of storage ports in a session based zone, hosts are no longer able to connect to the storage ports.		
Condition:	This may be seen in largely over-subscribed storage ports		
Workaround:	portdisable/portenable storage ports.		

Defect ID:	DEFECT000549417		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.0	Technology:	Configuration Fundamentals
Symptom:	If dynamic port name is configured on the switch, any change in port name will not be handled by MAPS dynamic group for which "feature" is specified as port name. After change in port name, the group membership may not reflect correct members.		
Condition:	Using MAPS and dynamic port naming		

Defect ID:	DEFECT000555276		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.0	Technology:	Fibre Channel Services
Symptom:	CLI command "portcfgshow" options (-s/-i) for slot/index does not display the fillword field.		
Condition:	CLI command "portcfgshow" does not display the fillword if input parameters are used. This is due to chip type conditions taken into consideration while options like -s/-i provided.		
Workaround:	Use the CLI command "portcfgshow" without any input parameters.		

Defect ID:	DEFECT000563298		
Technical Severity:	Low	Probability:	Low

Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.0_AMP	Technology:	Flow Vision
Symptom:	The output of "flow --show sys_mon_analytics -srcdev <SID> -dstdev <DID>" CLI does not display the metrics table for the specified single flow between the pair of source and destination devices.		
Condition:	The condition is observed when there is no traffic between the specified source and destination devices.		
Recovery:	Re-issue "flow --show sys_mon_analytics -srcdev <SID> -dstdev <DID>" command after traffic restarts between source and destination		

Defect ID:	DEFECT000564241		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.0_AMP	Technology:	Flow Vision
Symptom:	Fabric latency metrics for 10 sec / 5 min intervals are displayed in the brief metrics output even after the traffic is stopped.		
Condition:	This is observed when a user has enabled vTap from host ports and target ports to monitor fabric latency.		
Recovery:	Data will adjust when the traffic resumes.		

Defect ID:	DEFECT000569827		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.0	Technology:	Fibre Channel Services
Symptom:	Port beaconing stops after spinfab is ran.		
Condition:	When port beaconing is enabled on a port, LED blink pattern stops after spinfab is ran.		
Recovery:	Disable and then re-enable port beaconing on the port.		

Defect ID:	DEFECT000569927		
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Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.0	Technology:	Management GUI
Symptom:	The speed display in the Web Tools Switch Throughput Graph is not display the X-axis correctly for the G620 switch.		
Condition:	The X-axis display problem occurs for all GEN6 platforms		
Workaround:	Maximize the Web Tools Switch Throughput Graph for proper display		

Defect ID:	DEFECT000570830		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.0_AMP	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	State Changes notifications on trunked AE port are not generated.		
Condition:	AMP needs to be connected to fabric switch via a multi-port trunk..		

Defect ID:	DEFECT000574429		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.0_AMP	Technology:	Flow Vision
Symptom:	When total flow count reaches the maximum but IT and ITL counts are less than their respective maximum limits and there are idle flows, flow aging may not happen.		
Condition:	Aging is done based on IT and ITL usage counts. It can so happen both IT and ITL counts are well under the limits but total flow count in the system can exceed the aging threshold. In this case, aging will not happen and no new IT and ITL can get created.		
Recovery:	Use a flow reset to clear the flows and restart the monitoring.		

Defect ID:	DEFECT000577772		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	Flow Vision
Symptom:	History data for the F-Port trunk master does not display in the Fabric Flow Dashboard.		
Condition:	When the F-Port index is different than trunk mater user port number, information will be displayed based on user port number which is equal to trunk port index. In this case slave port information may display instead of trunk master.		

Defect ID:	DEFECT000594770		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.2.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Alerts are not being posted in RAS for C3TXTO rule in MAPS		
Condition:	It happens when there is link timeout/link reset on a port with C3TXTO. Remote device takes port offline upon receive LR. During this window, the maps alert is not triggered with C3TXTO.		
Workaround:	Configure maps for port state change alert to help monitor for problem ports.		

Defect ID:	DEFECT000602285		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.3.1	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	LDAP users are allowed to login with invalid password.		
Condition:	LDAP authentication in environments where directory service allows anonymous access.		

Defect ID:	DEFECT000603168		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.0.1	Technology:	Fibre Channel Routing
Symptom:	Host connection problem after Plogin ACC is dropped by switch.		
Condition:	Race condition triggered during port disable/enable testing on FOSv 8.0.1 or higher		
Workaround:	Bounce port		

Defect ID:	DEFECT000608997		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.3.1	Technology:	CLI - Command Line Interface
Symptom:	CP panic may be encountered with some daemons (fcoed, raslogd, vsd etc) termination, followed by a warm recovery.		
Condition:	This occurs after executing setdbg CLI command such as 'setdbg SNMP 3' command.		

Defect ID:	DEFECT000610499		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	The counters on flow monitor flow -frametype ABTS on Gen6 platform jump to an inaccurate number.		
Condition:	Observed after hafailover.		
Recovery:	Recovery is to issue a flow --reset <name>.		

Defect ID:	DEFECT000612419		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	Security Policies
Symptom:	User may encounter the following IPv6 activation error during firmware upgrade. [SEC-1329], ERROR, IPFilter enforcement:Failed to enforce ipfilter policy of IPV6 type because of 0		
Condition:	This may occur during firmaredownload following the hafaifover invoked as part of the non-disruptive firmwaredownload.		

Defect ID:	DEFECT000615571		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	HTTP/HTTPS
Symptom:	Generating CSR with customer provided inputs for TLS based applications to import certificate. New command seccertmgmt does not provide the command line option for the same.		
Condition:	Customers who would generate certificate for TLS applications.		
Workaround:	Customer can use seccertutil CLI or use default values for CSR generation		

Defect ID:	DEFECT000617602		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Hardware Monitoring
Symptom:	After power supply is pulled out and reinserted some slots remain in "Inserted, Not Powered On" state as seen in slotshow -m.		
Condition:	Slots that were powered off when power supply was removed will remain in powered off state.		
Recovery:	Recovery is to issue slotpoweron <slot>.		

Defect ID:	DEFECT000619917		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	CLI command "snmpconfig --set mibcapability" may not properly update the value of snmpMibCap.		
Condition:	The improper value of snmpMidCap may be seen following configdownload in FOSv7.4.x or later, snmp.mibCap.		

Defect ID:	DEFECT000620329		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	Flow Vision
Symptom:	No flow generator traffic after a port address change.		
Condition:	When binding a PID of a destination SIM port to a different SIM port.		
Recovery:	Recreate the active flow.		

Defect ID:	DEFECT000620949		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	CLI - Command Line Interface
Symptom:	<p>During firmware downgrade from FOS version v8.1.0 to v8.0.0, the following RPC mismatch component error message will be displayed, and a FFDC will be generated and the firmware upgrade will fail in warm recovery.</p> <p>[FSS-1009], 8098/4484, FFDC CHASSIS, ERROR, G620_90_I3, FSS Error: fcsw0-rpc: MISMATCH: component., svc.c, line: 2471, comp:FSSK_TH, ltime:2016/10/04-11:53:18:326339</p>		

Condition:	Due to the incompatible applications between FOS v8.1.0 and v8.0.0, the FSS error message is displayed during non-disruptive firmware download and the warm recovery cannot be completed.
Workaround:	To work around the firmware downgrade from FOS v8.1.0 to v8.0.0, please follow the steps mentioned below. <ul style="list-style-type: none"> o Perform firmware downgrade from FOS v8.1.0 to v8.0.1 first. o Perform firmware downgrade from FOS v8.0.1 to v8.0.0 next.

Defect ID:	DEFECT000624876		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Customer may see discrepancy in reported values between the mapsdb --show output and portstatshow output for c3 discards due to tx timeout.		
Condition:	This may be seen on Gen 5 platforms		

Defect ID:	DEFECT000627207		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Inband Management
Symptom:	The IOCTL error message is reported when eth0 or eth3 interface is down.		
Condition:	When user set eth0 or eth3 interface to down state, the following error log message is displayed ioctl(ETHTOOL_GSET) failed 19 /fabos/cliexec/ifmodeshow: [: : integer expression expected		

Defect ID:	DEFECT000627339		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In	FOS8.1.0	Technology:	Inband Management

Release:			
Symptom:	When eth0 interface is down the eth3 interface become active. This behavior is persistent even after reboot		
Condition:	When user makes the eth0 interface down and up, the eth3 will become active automatically. Even after switch reboot, both eth0 and eth3 will remain active.		

Defect ID:	DEFECT000627504		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS triggers Latency Impact rules with a value >100%		
Condition:	If on F-ports which exhibit repeated slow drain behavior over a long period (in terms of multiple days), MAPS Latency Impact RAS message will report the amount of impact value > 100%.		

Defect ID:	DEFECT000630177		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.0.2	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPs may permit creation of upper limits that are larger than permitted values for certain fields		
Condition:	this may be encountered on Gen 6 platforms		

Defect ID:	DEFECT000632012		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	High Availability

Symptom:	Switch may reboot from Sig 7 Machine Check
Condition:	This is a very rare occurrence

Defect ID:	DEFECT000632433		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	LDAP - Lightweight Directory Access Protocol
Symptom:	LDAP user role mapped to user created switch defined role results in failed access in shell.		
Condition:	This may be seen following an upgrade to FOS7.4.1d or higher.		

Defect ID:	DEFECT000633099		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	CLI - Command Line Interface
Symptom:	Using the SSH syntax "ssh admin@<ip address> <cli command>" in LS specific context, generates the output for the default switch.		
Condition:	This is encountered on all platforms		

Defect ID:	DEFECT000633179		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Management GUI
Symptom:	Webtools tooltip does not display the CRC errors incremented in the given polling interval, instead it displays the counter value itself.		
Condition:	This is applicable for all FOS platforms.		

Defect ID:	DEFECT000633432		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Management GUI
Symptom:	L port is listed in "Port Admin" tab and in "FC Port Configuration Wizard" when user clicks 'Actions and Edit" in General tab		
Condition:	Fabric OS version 8.0 and above supports only 16G/32G Products which do not support L-Port(loop port)		

Defect ID:	DEFECT000636695		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.1	Technology:	Fibre Channel Routing
Symptom:	No traffic is traversing on two shared area ports.		
Condition:	Very rare and very difficult to reproduce.		
Recovery:	Disable both ports. Then enable both ports.		

Defect ID:	DEFECT000636786		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.0	Technology:	Fibre Channel Routing
Symptom:	TDZ transaction commit failed & Software Verify FFDC PANIC may be observed.		
Condition:	This may be encountered on Brocade Gen 6 and Gen 5 platforms while creating TDZ zones. TDZ zones themselves get created successfully irrespective of this issue.		

Defect ID:	DEFECT000637275		
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Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	High Availability
Symptom:	HA goes out of sync after FFDC.		
Condition:	This ha-update failure occurs on the standby CP after slotpoweroff/slotpoweron on the active CP, while the standby CP is still coming up (i.e before HA sync).		

Defect ID:	DEFECT000637438		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	snmp.mibcap is not updated.		
Condition:	If the mibs are changed in FOSv7.4 the snmp.mibcap is not updated.		

Defect ID:	DEFECT000638225		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	Management GUI
Symptom:	L port is being listed as an Allowed port type option in Web Tools		
Condition:	When use WebTools Port Admin to configure port on G620		

Defect ID:	DEFECT000638991		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	NPIV - N-Port ID Virtualization

Symptom:	Device cannot login and observe [NS-1012] Detected duplicate WWPN [] - devices removed.
Condition:	If a switch has NPIV devices with "Fport update mode" turned on, bouncing an NPIV port after hafaifover could trigger this issue.

Defect ID:	DEFECT000640731		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.3.1	Technology:	Fibre Channel Routing
Symptom:	Off-chip shared area routes are missing and cause connectivity issue for devices on shared area port after CP failures.		
Condition:	Rare condition when there was a loss of heartbeat between Standby and Active CP which caused the Active CP to go down abruptly, both the primary and secondary IFIDs are not mapped to the shared area IFID. Also added debug trace to catch this condition.		

Defect ID:	DEFECT000641724		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.1	Technology:	Fibre Channel Routing
Symptom:	User may encounter proxy devices missing from NS.		
Condition:	This may be seen after rebooting a backbone switch.		

Defect ID:	DEFECT000642118		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.3.1	Technology:	LDAP - Lightweight Directory Access Protocol
Symptom:	Fabric discovery fails through BNA when using user-name@domain.com format and weblinker.fcgi encounters a panic.		

Condition:	This is encountered when fabric discovery is done through BNA using user-name@domain.com format.
Workaround:	Use UPN only for username in BNA discovery.

Defect ID:	DEFECT000643020		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	During firmware upgrade, snmpd terminates, resulting in disruptive upgrade.		
Condition:	This is a corner case situation encountered when system goes for a reboot from upgrade and there is already a request in queue to be processed.		

Defect ID:	DEFECT000643566		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Management GUI
Symptom:	In webtools after the user has enables an active zone configuration and successfully saves it to the switch, zone config tab may indicate: effective zone config: none		
Condition:	This is a cosmetic issue in webtools zone config tab display, with no functional impact.		

Defect ID:	DEFECT000643776		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS7.4.1	Technology:	Security Policies
Symptom:	Switch running FOS v8.x panics when distributing password in a fabric		

	with a mix of FOS versions FOS7.1 or lower and FOS v8.x
Condition:	Run "distribute -p PWD ?d <switch-list>" command on a switch running FOS v7.1 or earlier to distribute password database to a
	switch running FOS v8.x. The switch running FOS v8.x will panic while processing data received from earlier revision FOS. Mixed fabric releases with FOS v7.2/7.3 and 8.0.1 or later are not impacted.
Workaround:	Run the command from switches with the highest revision FOS, or upgrade the target/receiving switches to FOS v8.1.1a or later versions which has the fix.

Defect ID:	DEFECT000643809		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	A misbehaving device may trigger ALL_TARGET_PORTS or ALL_OTHER_F_PORTS rules.		
Condition:	This is a very rare occurrence that may be seen in MAPs, when there are no F-Ports in the ALL_OTHER_F_PORTS group.		

Defect ID:	DEFECT000644047		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Access Gateway
Symptom:	An F-Port on an AG is logging to the FC fabric and has requested FAPWWN. If the current N-Port of the F-Port is disabled during this process, the F-Port might not come up.		
Condition:	N-Port toggled during the F-Port login process which was requesting FAPWWN		
Workaround:	Do not toggle the current N-Port of the F-Port which is logging in to the fabric		
Recovery:	Toggle the F-Port which is stuck		

Defect ID:	DEFECT000644950		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Inband Management
Symptom:	IPv6 Gateway address is not populated when IPv6 Autoconfiguration is enabled		
Condition:	issues show after ipaddress --clear		
Workaround:	remove IPv4, set IPv6, then add IPv4 back		

Defect ID:	DEFECT000645349		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	FA-PWWN - Fabric-Assisted Port WWN
Symptom:	A few Invalid PWWNs can be configured by the end user.		
Condition:	In some cases, an invalid PWWNs can be used when configuring the FAPWWN command.		

Defect ID:	DEFECT000645782		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	Management GUI
Symptom:	E_Port Credits column does not exist on Web Tools.		
Condition:	Problem observed when using Web Tools.		
Workaround:	Use CLI "portCfgEPortCredits".		

Defect ID:	DEFECT000645904		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management

Reported In Release:	FOS7.4.2	Technology:	High Availability
Symptom:	After HA (hafailover/hareboot), the ports are online in switchshow, but internal states still have these ports marked offline. Consequently routes are not programmed on these ports.		
Condition:	This happens when there is a single port failed HArecover with RASLOG, [SWCH-1031], , SLOT 7 FID 128, WARNING,, Port 0 recovery failed.		

Defect ID:	DEFECT000645929		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	firmware integrity check fails for uiproperties.prop file		
Condition:	When firmware integrity check is enabled during a build		

Defect ID:	DEFECT000646305		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	SNMP - Simple Network Management Protocol
Symptom:	MAPS traps become enabled, from a previously disabled setting following a firmware upgrade.		
Condition:	This occurs after upgrade from FOS 8.0.x to higher FOS versions.		

Defect ID:	DEFECT000646323		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	CLI - Command Line Interface

Symptom:	CLI command "portshow 0" reflect "FAA" as inactive, even when FAA is enabled for the port.
Condition:	This is a cosmetic discrepancy, that appears in the output of only "portshow 0", with no functional impact.

Defect ID:	DEFECT000647702		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	FICON host may not be notified of MAPS port FENCE action that occurs as a result of a stats threshold violation		
Condition:	<ol style="list-style-type: none"> 1. FMS enabled. 2. IBM Health Checker running, with IOS_FABRIC_MONITOR checks enabled. 3. MAPS is running with the FMS and FENCE actions enabled in the mapsconfig5. 4. MAPS rule having the FENCE action is triggered on a port. 		

Defect ID:	DEFECT000647818		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Any QSFP optics is incorrectly categorized as ALL_SFP logical group when it should have been ALL_QSFP logical group.		
Condition:	Any supported QSFP optic inserted.		

Defect ID:	DEFECT000647924		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	Fabric Authentication

Symptom:	When authinit is done from switch to and Access Gateway N-Port, authentication fails on the port
Condition:	Authinit done from switch to AG
Workaround:	Authinit can be issued from AG. Default Authentication works as well

Defect ID:	DEFECT000648052		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	SupportSave ftp and sftp options will upload the files to user specified remote directory. If the remote directory is not pre-set as writeable, there is case that supportsave may proceed completely, not knowing the upload files are not uploaded properly if the remote server does not return a error for the upload operation.		
Condition:	Customer does not make supportsave upload directory as writable.		

Defect ID:	DEFECT000648542		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Frame Log does not show correct Entity ID for discarded frames in non-default switches and instead show N/A.		
Condition:	When the frame drop is in a non-default switches.		

Defect ID:	DEFECT000649293		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	User might see incorrect values for IPExtension and Tape Pipelining under Port Admin-->Ve/VeX --> FCIP Tunnel stats. Also User is		

	unable to view Remote Switch WWN, Local Port IP and Remote port IP parameters in WebTools
Condition:	Switch supports FCIP or Chassis has an FCIP blade

Defect ID:	DEFECT000649581		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Users cannot configure UCS mode for CEE interfaces from WebTools		
Condition:	Brocade blade FC32-64 platforms that are FCoE capable		

Defect ID:	DEFECT000650268		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Mapsrule create RoR (Rule on Rule) "-value" parameter accepts negative values.		
Condition:	For example, Run: mapsrule --createRoR test_ror_CRC_3 -monitor test_CRC -timebase hour -op g -value -100 -action raslog is accepted.		

Defect ID:	DEFECT000650414		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Fibre Channel Services
Symptom:	In a backbone-to-edge routed fabric configuration, FC ping from a backbone switch to a device in the edge fabric fails.		
Condition:	In a backbone-to-edge routed fabric configuration, if there is a VE-VE or VEX-VE tunnel along the path to the edge fabric, FC ping from a		

	backbone switch to a device in the Edge fabric will fail.
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Defect ID:	DEFECT000650423		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	Error message 'ucid_make_fos_ipc_call is failed' when creating the 65th LAG		
Condition:	When creating the 65th LAG.		

Defect ID:	DEFECT000650484		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS (Monitoring and Alerting Policy Suite) generates RASLOG alerts every minute if the user adds RASLOG action to cloned default Switch Status Policy rules (measures that support SW_DOWN, SW_MARGINAL actions)		
Condition:	Default SSP rules have to be customized and RASLOG action has to be configured for the custom rule.		
Workaround:	Do not configure RASLOG action to the custom SSP rules		
Recovery:	Unconfigure the RASLOG action from the rule and enable the active policy.		

Defect ID:	DEFECT000650701		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	CLI - Command Line Interface
Symptom:	Director class switches limit chassis name to 15 characters while fixed		

	port switches can support 31 characters.
Condition:	CLI command "chassisname" cannot change switch name to greater than 15 characters on directors.

Defect ID:	DEFECT000650980		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	portloopback test with lb mode option 1 (external loopback mode) for 40G BiDi QSFP, pn 57-1000339-01, in FC-32-64 GEN6 blade is not supported. An ineffective error message is seen on the console		
Condition:	portloopback lb mode 1 (external loopback mode) is not supported for FC32-64 blade with 40G BiDi QSFP pn 57-1000339-01, Ethernet mode QSFP.		

Defect ID:	DEFECT000651065		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Access Gateway
Symptom:	32G QSFP pn 57-1000351-01 sometimes negotiate down to 16G		
Condition:	When the 32G QSFP pn 57-1000351-01 is connected to a 32G SFP that was rebooted		
Workaround:	portdisable / portenable after reboot		

Defect ID:	DEFECT000651081		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	In some cases, MAPS (Monitoring and Alerting Policy Suite) does not		

	accept valid email addresses.
Condition:	If the email address contains special characters like MAPS does not accept them as valid input

Defect ID:	DEFECT000651482		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	"Machine check in kernel mode and ASSERT - Failed expression: 0 && "Unrecoverable MM PCIe failure" during POST on chassis core blade		
Condition:	When a chassis blade is powered off while POST is running on a core blade		
Workaround:	Do not poweroff any chassis blades while POST is running on a core Blade. Check the "slotshow -m" for the core blade status.		

Defect ID:	DEFECT000651564		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	Port 44-47 will be in the disabled state when any other port in the chassis is enabled with the Encryption mode.		
Condition:	User try to enable the Encryption functionality on any of the port apart from port 44-47 on G620 platform.		

Defect ID:	DEFECT000651961		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite

Symptom:	Collection rules for flows triggers even though flows are deleted from the collection.
Condition:	This can happen when one of the Data Path processor goes down in the AMP causing inconsistency in the rule configuration.
Workaround:	AMP reboot has to be performed to recover from this situation.

Defect ID:	DEFECT000651967		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	Under Port admin--> FC/Ethernet Ports, additional port Info for Ethernet ports are not shown.		
Condition:	Switch is FCoE Capable and has Ethernet ports configured		

Defect ID:	DEFECT000651983		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	CLI - Command Line Interface
Symptom:	User will see an inconsistency between mapsrule 'man' page and help output from the cli command "mapsrule --help".		
Condition:	This is an inconsistency seen with maps man page on mapsrules.		

Defect ID:	DEFECT000652136		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Fibre Channel Routing
Symptom:	On a backbone to edge setup, after fastboot on a backbone switch, online devices are missing from GE_PT response from a xlate domain.		
Condition:	This results from a timing issue when device is coming online and an		

	RSCN is sent out before GE_PT is exchanged.
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Defect ID:	DEFECT000652271		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Buffer Credit Management
Symptom:	Though this is unlikely user scenario, user might observe incorrect AMP statistics, as the QOS credit model is altered.		
Condition:	When an AE port in the switch side is modified to RRDY_MODE or when a ASL link is connected to the switch port that is already configured as RRDY_MODE, the user might observe this issue		
Workaround:	Ensure that the QOS configuration is not modified for the online AE-port in the switch. Ensure that QOS is enabled for the switch port before bringing-up ASL connection.		
Recovery:	Enable the QOS configuration of the AE port and toggle the switch port.		

Defect ID:	DEFECT000653188		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	Flow Vision
Symptom:	SCSI frametypes SCSI, SCISGoodStatus, SCSTur and SCSXferrdy inadvertently works on NVMe traffic.		
Condition:	The issue is because NVMe over FC standard reused the FC-4 type 0x08 used by FCP -SCSI.		

Defect ID:	DEFECT000653263		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up

RSCN is sent out before GE_PT is exchanged.

Symptom:	IBM LTO tape library may sync up at 4G instead of the optimal 8G speed when connected to a G610.
Condition:	IBM LTO tape library connected to a G610.

Defect ID:	DEFECT000653341		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	CLI - Command Line Interface
Symptom:	snmp.*.default parameter are not written in config file by "snmpconfig -default snmpv3"		
Condition:	SNMP parameter such as snmp.usmUserPaswdEncFlag.default:0 appears only after configupload/configdownload. not after snmpconfig --default.snmpv3.		

Defect ID:	DEFECT000653349		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.1	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	When using RoR, modifying the following parameters of the base rule are not blocked: ? Monitoring system ? Timebase ? Severity ? Repeat count		
Condition:	When using maps CLI changing the time base to hour, and severity to warning. In both cases it gave the warning regarding the rule being monitored by other rules, but it took the changes when re-enabled the policy.		

Defect ID:	DEFECT000653375		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management

Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	when a Bi-Di QSFP is inserted and the port is in non-ETH mode, the port state incorrectly shows "Mod_Val".		
Condition:	40G Eth BI-DI support on Anakin in 8.2.0		

Defect ID:	DEFECT000653397		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	QSFP is not grouped under correct logicalgroup. QSFP should be grouped under ALL_QSFP group but they are currently grouped under ALL_SFP logical group.		
Condition:	QSFP is not grouped under correct logicalgroup. QSFP should be grouped under ALL_QSFP group but they are currently grouped under ALL_SFP logical group. Going for deferral as we have workaround for this issue. Please refer workaround section.		
Workaround:	For these F-Port trunks, The ALL_HOST_PORTS rules can be replaced by ALL_PORTS rules or custom port group rules		

Defect ID:	DEFECT000653466		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.2	Technology:	SNMP - Simple Network Management Protocol
Symptom:	If a swDeviceStatus trap is generated from a port on the default switch, the swDeviceStatusTrap OID 'tail number' is inconsistent		
Condition:	This may occur when a port on the default switch generates a swDeviceStatus trap.		

Defect ID:	DEFECT000653625		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	ISL - Inter-Switch Linking
Symptom:	Configuring static link cost on trunk slave port(s) different than the cost of the trunk master causes "Port Decom Without Disable" feature to not work correctly on the slave port(s) with the higher link cost.		
Condition:	This issue would only happen as a result of a incorrect static link cost configuration but we do not prevent the user from configuring different link costs on trunk ports.		
Workaround:	Do not configuring trunked ports with different link costs. The user should not do this regardless of this issue.		
Recovery:	Configure all ports in a trunk group with the same link cost		

Defect ID:	DEFECT000653651		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	User may encounter a very slow response to the CLI command snmpbulkwalk.		
Condition:	This may occur when attempting snmpbulkwalk of ifdec table.		

Defect ID:	DEFECT000653676		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	Flow Vision
Symptom:	Flow monitor monitors stats only on the current active master port of the trunk group. However flows created on the member of EX port trunk group doesn't show stats after the port transitions into new master port of the trunk group.		

	<p>E.g: Port 34 and 35 are members of EX-port trunk group. flow --create kp6i -ingrport 34 -srcdev "020a00" -dstdev "caf001" -feamon (Slave port) flow --create kp7i -ingrport 35 -srcdev "020a00" -dstdev "caf001" -feamon (Master port) kp6i is not showing stats after port 35 goes offline and port 34 becomes new master.</p>
Condition:	Flow vision is used to monitor flows on an EX port trunk group on an edge fabric.
Workaround:	<ol style="list-style-type: none"> 1. Deactivate all the flows defined in the trunk group. 2. Activate the flow on new master port. <p>e.g: <ol style="list-style-type: none"> 1. flow --deact kp6i;flow --deact kp7i 2. flow --act kp6i </p>
Recovery:	<ol style="list-style-type: none"> 1. Deactivate all the flows defined in the trunk group. 2. Activate the flow on new master port.

Defect ID:	DEFECT000653923		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	Flow Vision
Symptom:	Mirroring of frames doesn't resume after all the members of the trunk group are disabled and enabled.		
Condition:	Stress to fail test scenario.		
Workaround:	Please deactivate and reactivate mirror flow.		

Defect ID:	DEFECT000654083		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	Security Policies
Symptom:	When multiple back to back password distribution is performed on a fabric with large number of Access Gateway switches connected, the transaction doesn't complete in an Access Gateway switch and further transactions are not allowed for the Access Gateway switch.		

Condition:	Multiple back to back password distribution on a fabric with large number of Access Gateway switches.
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Defect ID:	DEFECT000654272		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Alerts for defSWITCHLSAN_DEVCNT_PER_60 rules are generated by MAPS (Monitoring and Alerting Policy Suite) in base switch as well as non-base switches.		
Condition:	If the MAPS active policy in non base switches contains defSWITCHLSAN_DEVCNT_PER_60 rule and if the LSAN device count in base fabric exceeds 60% of the supported device limit		
Recovery:	Delete LSAN_DEVCNT rule from active policy in non-base switches and enable the policy.		

Defect ID:	DEFECT000654403		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP Tunnel Management
Symptom:	IP address modification for an IP that is attached to one or more SLA configured circuits will either fail with a message to re-enable the circuit or the circuit will get stuck in a 'test' state.		
Condition:	<p>If a customer has a circuit configured with an SLA and an IP address modify request is attempted, the following events will occur:</p> <ol style="list-style-type: none"> 1) At the start the circuit will be in an 'online' state (not in 'test' state), during the IP address modification the remote side will go down causing the circuit to change states. 2) Finally when the IP address modification finishes (with error or success), the circuit will most likely be stuck in a 'test' state. 		

Defect ID:	DEFECT000654503		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	D-Port - Diagnostic Port
Symptom:	D-Port Link traffic test will fail when user move ports to newly created logical switch.		
Condition:	If both the switches have the same domain ID, then D-port test will fail in link traffic test.		
Workaround:	Resolve the domain ID conflict by doing switchdisable and switchenable.		
Recovery:	Resolve the domain ID conflict by doing switchdisable and switchenable.		

Defect ID:	DEFECT000654621		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	Clihistory displays the user incorrectly when first login fails.		
Condition:	Only when first login attempt fails.		
Recovery:	No functionality gets broken.		

Defect ID:	DEFECT000654656		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.2	Technology:	Extended Fabrics
Symptom:	Performance over FCIP tunnel may not be optimal in PBR or DBR topologies.		
Condition:	When running FICON traffic over an FCIP Tunnel in non-EBR routing modes		

Defect ID:	DEFECT000654801		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	D-Port - Diagnostic Port
Symptom:	When core blade is removed/inserted, user may observe hafailover on chassis.		
Condition:	When core blade is removed/inserted and if On-demand D-Port is configured on switch configuration, D-Port test will be started on all ports in the blade. While running test, manually if user tries to stop the test and exit from the D-Port mode rarely users may see Hafailover on chassis.		

Defect ID:	DEFECT000654871		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	APM - Advanced Performance Monitoring
Symptom:	User may see ASL gets fenced during switch being toggled.		
Condition:	When switchenable is done in a huge fabric this issue can be seen.		
Workaround:	Re enable the AE port.		

Defect ID:	DEFECT000654884		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	If BNA process the scale configuration on a FOS switch or number of REST sessions are increased significantly, the REST requests may get timed out intermittently.		
Condition:	Applications may receive timeouts for the REST requests in the heavy work load conditions.		
Workaround:	Retry REST request		

Defect ID:	DEFECT000654945		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	Extended Fabrics
Symptom:	In "lldp --show -port <port-name>" output, some extension vlans (configured on that port) don't show up		
Condition:	When slot mode is changed to hybrid		
Recovery:	Remove and reapply the ipif configurations for that port		

Defect ID:	DEFECT000655005		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	On a 40G QSFP port which is configured as ETH port and breakout mode is not enabled, the first port will be enabled while the secondary ports will be persistently disabled. For the secondary ports, CLI "sfpshow" shows the ports as "Cannot access device" and CLI "sfpshow <port>" states "No SFP installed in port". This is a cosmetic issue, and customer can issue CLI "sfpshow" on the first port instead. The SFP information displayed from the first port is information that represents all ports on the QSFP.		
Condition:	This needs to be published only for the Anakin platform where we support ETH ports in QSFP ports.		

Defect ID:	DEFECT000655077		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Access Gateway
Symptom:	In AG mode with F-port trunking configuration, FC ping from switch to a device in AG fails.		

Condition:	In AG mode with F-port trunking configuration, when master F-port is changed to new master then FC ping fails from switch to device in AG.
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Defect ID:	DEFECT000655094		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	User is currently able to view property member for a peer zone in Zone Admin, which should be hidden		
Condition:	Peer Zone is available on Switch		

Defect ID:	DEFECT000655108		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.3.2	Technology:	Buffer Credit Management
Symptom:	Customer seeing the long distance LS buffer settings get lost following reboot of 7800 switch		
Condition:	Configuring the long distance mode on 7800 switch port and then reboot of the box may exhibit the issue on a very rare occasion.		
Recovery:	Customer may reconfigure the long distance configuration again on the switch port		

Defect ID:	DEFECT000655125		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	High Availability
Symptom:	Across different platforms (both chassis & pizzabox) some chassis show fields for power supply, such as power consumption, have been changed or are deleted. These fields are different between v8.1.0b and v8.2.0.		

Condition:	Chassisshow output were changed between v8.1.0b and v8.2.0 to support different power supplies.
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Defect ID:	DEFECT000655168		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	High Availability
Symptom:	For ETH ports in non-breakout mode, the secondary ports will be disabled and switchshow will show them as Disabled (Persistent) (QSFP Secondary port). After hafailover, switchshow will only show them as Disabled (Persistent). This is just a display issue.		
Condition:	Secondary ETH ports in non-breakout mode after hafailover, will no longer display (QSFP Secondary port).		

Defect ID:	DEFECT000655190		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	Encryption
Symptom:	Firmware download to FOS8.0.x is allowed with inflight encryption configured. FOS8.0.x doesn't support inflight encryption and hence ports configured with encryption will be disabled		
Condition:	Firmwaredownload to FOS8.0.x with inflight encryption configured.		
Workaround:	Disable inflight encryption before firmwaredownload to FOS8.0.x		
Recovery:	Disable inflight encryption and enable the port		

Defect ID:	DEFECT000655223		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	RAS - Reliability, Availability, and Serviceability

Symptom:	incorrect RASLOG message regarding firmware version in below example. Fabric OS should be changed to AMP OS. "2017/10/17-13:33:25, [SULB-1036], 49, CHASSIS, INFO, BrocadeAMP, The new Version: Fabric OS v2.2.0_bld44"
Condition:	none

Defect ID:	DEFECT000655318		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	While collecting supportsave there is a possibility of observing the message. "proc_file_read: PROC BUF OVERFLOW by _skyb_blade_show_2_x+0x0/0x3c [skyb_blade_module], at 4096!!"		
Condition:	These messages can occur while collecting supportsave after executing slotpoweroff/on on slots with SX-6 blade		

Defect ID:	DEFECT000655404		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Fibre Channel Routing
Symptom:	I/O disruptions (Interface Control Checks for active FICON devices) during Extension HCL operations		
Condition:	When the FCIP tunnel that is going through HCL is in a switch that is configured to use Exchange Based Routing.		

Defect ID:	DEFECT000655408		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	FCIP - Fibre Channel over IP
Symptom:	Extended TCP LAN throughput statistics can show high values on an		

	idle connection.
Condition:	Throughput values for emulated TCP connections do not update in a timely manner when an active connection goes completely idle for a long period of time.

Defect ID:	DEFECT000655429		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	While changing the domain of a switch, hafaifover to standby CP could occur in the rare event of a race condition.		
Condition:	This occurs in the rare event of a race condition between a request time out and the reponse from the data processor due to switchdisable being done for domain change.		

Defect ID:	DEFECT000655499		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	Unable to connect with SNMPv3, SNMP communication is failing with default credentials from BNA.		
Condition:	FCIP ports should be present on the switch with a few online tunnels and circuits.		

Defect ID:	DEFECT000655518		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Fibre Channel Services

Symptom:	User may still observe the RLS information even the port or switch disabled.
Condition:	The RLS information will be retained even the port goes offline.

Defect ID:	DEFECT000655567		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	D-Port - Diagnostic Port
Symptom:	With 4x32GFC breakout QSFP optics p/n 57-1000351-01 (E-port connection) when initiated D-Port test on a single port the test gets passed but it fails 1 out of 10 times (approximate) on one port with protocol error when the test is initiated on 4 ports simultaneously		
Condition:	In 4x32GFC breakout QSFP optics p/n 57-1000351-01 (E-port connection) user will see D-Port test failure in 1 out of 10 times (approximate) on one port with protocol error when the test is initiated on 4 ports simultaneously		
Workaround:	Toggle the port on both sides of the link and restart the D-Port test.		
Recovery:	Toggle the port on both sides of the link and restart the D-Port test.		

Defect ID:	DEFECT000655611		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	May notice an FSPF event on ports 44-47 after enabling encryption on G620.		
Condition:	May notice an FSPF event on ports 44-47 if ports 44-47 was enabled while enabling encryption on G620.		
Workaround:	Disable ports 44-47 first before enabling encryption.		

Defect ID:	DEFECT000655634		
Technical Severity:	High	Probability:	Medium

Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Security transaction in a non-primary FCS switch get deadlocked when another non-primary FCS switch in fabric has DCC policies not present in the FCS switch.		
Condition:	Happens when non-primary FCS switch in fabric has DCC policies not present in the FCS switch and fabwide DCC is in tolerant mode.		
Workaround:	Make the switch with additional policies as FCS primary using "secpolicyfcsmove" and remove the unwanted policies. Do hafailover on the affected switch.		
Recovery:	Make the switch with additional policies as FCS primary using "secpolicyfcsmove" and remove the unwanted policies. Do hafailover on the affected switch.		

Defect ID:	DEFECT000655666		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.0	Technology:	Extended Fabrics
Symptom:	LAG port members go into disabled state when changing the LAG port speed or the port auto-negotiate setting.		
Condition:	This will occur when modifying a LAG speed or port auto negotiate setting.		
Recovery:	Manually re-enable the port members with the CLI 'portenable <port>' command.		

Defect ID:	DEFECT000655714		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	Ports which are disabled for performing bind/unbind operation, are not re-enabled once the operation is completed.		
Condition:	Issue is seen on FICON Logical switch		

Workaround:	User has to explicitly enable the disabled port after the bind/unbind operation.
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Defect ID:	DEFECT000655799		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	Flow Vision
Symptom:	If 'flow --reset' isn't performed on a logical switch, before deleting the logical switch (FID), the old flows (belonging to the deleted logical switch) will not be reset.		
Condition:	A logical switch (FID) is deleted, but 'flow --reset' operation isn't performed before deleting the logical switch.		
Workaround:	Reset the flows before deleting a logical switch		

Defect ID:	DEFECT000655814		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Virtual Fabrics
Symptom:	User may see a panic when attempting to power off any blade while POST is running on a core blade.		
Condition:	POST running on a X6-8 or X6-4 core blade makes frequent access of ASICs on all other blades in the system. Powering off one of these other blades during an ASIC access will cause a panic.		
Workaround:	Do not do anything that would cause a slot to power off if POST is running on a core blade.		

Defect ID:	DEFECT000655837		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	High Availability

Symptom:	Customer may encounter hfailver turn into a cold recovery
Condition:	This may result from a voltage not in range reading from the voltage sensor logged via the raslog message HIL-5010

Defect ID:	DEFECT000656066		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	Observe panic during systemverification test on FC32-64 blade initiated with -unit option.		
Condition:	Seen when the systemverification command is initiated with -unit option on the FC32-64 blade.		
Workaround:	Run systemverification using default option		

Defect ID:	DEFECT000656244		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	SNMP - Simple Network Management Protocol
Symptom:	For a configure F-port trunk, snmpwalk query for 'swFCPortName'/swFCPortSpecifier? SNMP objects number of entries returned will be one extra compared to number of physical ports present in that logical context. Similarly when the XISL is enabled and snmpwalk query for `swFCPortSpecifier? object returns the extra entry.		
Condition:	F-Port trunk or XISL feature configured and enabled on the switch.		

Defect ID:	DEFECT000656322		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In	FOS8.2.0	Technology:	ISL - Inter-Switch

Release:			Linking
Symptom:	The ISL takes long time to come online when connected between 32G QSFP pn 57-1000351-01 and Fixed speed 16G QSFP or SFP. The swtchshow output displays AN for longtime.		
Condition:	This issue occurs after the 32G QSFP pn 57-1000351-01 optic was introduced.		

Defect ID:	DEFECT000656353		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Switch panic during platform boot up		
Condition:	During multiple switch reboot or hareboots may hit this issue.		

Defect ID:	DEFECT000656436		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	CLI portpeerbeacon is not supported on ETH port.		
Condition:	When enabling portpeerbeacon on ETH port, there is no information to display.		
Workaround:	User can use "portbeacon" on Eth port to get the information.		

Defect ID:	DEFECT000656513		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Fibre Channel Services
Symptom:	CLI command cfgsize displays a lower value of the Chassis-wide committed zone DB size. This may result in the switch allowing zone		

	configurations to exceed the maximum size supported by the chassis.
Condition:	This defect has been seen on GEN6 chassis' when the following steps are done. 1. Download new firmware and reboot the switch (or) Reboot the standby CP, 2. Download new firmware again and reboot the switch (or) an HA failover. The issue requires multiple Logical Switches to be configured.
Recovery:	Run CLI cfgenable to enable the zoning configuration which is already enabled.

Defect ID:	DEFECT000656544		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.0	Technology:	Zoning
Symptom:	User may notice intermittent loss of peer zones from effective configuration when making zoning configuration through Webtools		
Condition:	This issue may occur when user modifies peer zone by adding members to principle list or member list and activates through Webtools		

Defect ID:	DEFECT000656635		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Zone merge can take a long time to complete and the zoned process consumes high CPU usage.		
Condition:	During a fabric merge, if the zone configuration has many TI zones (15 to 25 TI zones), then the zone merge will take more time to complete.		
Workaround:	Remove unwanted TI zones from the configuration.		
Recovery:	Stop the zone merge by disabling the fabric link.		

Defect ID:	DEFECT000656694
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Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Management GUI
Symptom:	CSCTL warning dialog does not allow user to reboot the switch though it has "Yes" option in the same WebTools dialog		
Condition:	Seen when user configures CSCTL mode 0 switch using WebTools		

Defect ID:	DEFECT000656847		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	The monitoring and alerting system notification on BNA shows alerting for IP_EXTN_FLOW with an incorrect DP number for chassis environment.		
Condition:	SX6 blade with IP Extension traffic with MAPS monitoring enabled chassis.		
Workaround:	The RASLOG events captured on BNA displays the correct format of the DP.		

Defect ID:	DEFECT000656859		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Virtual Fabrics
Symptom:	Detected termination of process fcoed may be observed		
Condition:	In scalable environment having multiple FCoE enodes, when config upload/download is done. Also with FC32-64 blade Ethernet port movement across logical switches without much time gap, fcoed process termination may be observed.		
Workaround:	Provide sufficient time delay between Ethernet port movement and configuration download operations.		

Defect ID:	DEFECT000656861		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	In some cases, error displays interface does not have eth port ready during FCoE provisioning on Ethernet port		
Condition:	During FCoE port provisioning on eth port		
Recovery:	Convert the Ethernet port to FC port and back to Ethernet port using flex port cli (portcfgflexport).		

Defect ID:	DEFECT000656972		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	Proxy FCoE devices are successfully imported into the FCR backbone but device type does not display it as FCoE devices.		
Condition:	When FCoE devices connected to an Edge Fabric are imported into the FCR backbone switch, if user use nsshow to view imported FCoE device, the display of "FCoE" field will be empty.		

Defect ID:	DEFECT000656992		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	FCoE configuration for FC32-64 blade may still be preserved after swapping with a FC32-48 blade.		
Condition:	If the FC32-64 blade upper range ports (e.g. ports 48-64) have been configured as FCoE ports, the FCoE configuration on these upper range ports will not be cleared after swapping with a FC32-48 blade		
Workaround:	Remove the FCoE configuration for the FC32-64 blade before removing the blade.		

Defect ID:	DEFECT000657074		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	CLI - Command Line Interface
Symptom:	Error message "ERROR: UID change error:-1: Command may face permission issues on proceeding further" is printed, when portchannel and lldp related commands are executed with admin user on 7840		
Condition:	execution of portchannel and lldp CLI		
Recovery:	The error messages are harmless and does not impact functionality		

Defect ID:	DEFECT000657091		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.0	Technology:	Port Bring-up
Symptom:	32G QSFP pn 57-1000351-01 may negotiate to 32G when connected to another 32G QSFP pn 57-100031-01 that is configure for fixed 16G.		
Condition:	multiple portdisable/enable on the auto-negotiate side		

Defect ID:	DEFECT000657173		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Configuration Fundamentals
Symptom:	In Peer zone, property members will be displayed without the verbose option.		
Condition:	If a WWN without colon is given as principal peer zone member, then the given WWN is consider as an alias. Also we might not have an entry for that alias. If a Non-existing alias is given as only principal member of the peer zone, then due to zoning logic failure, property members will be displayed without the verbose option.		

Workaround:	Provide colons at appropriate places for WWN zone members.
Recovery:	Provide colons at appropriate places for WWN zone members.

Defect ID:	DEFECT000657573		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	LDAP - Lightweight Directory Access Protocol
Symptom:	After a firmware migration downgrade from v8.2.0 to v8.0.0, login will be blocked with LDAP message displayed		
Condition:	Applicable to platforms that support v8.0.0		
Workaround:	Unconfigure the AAA server and then perform the firmware migration downgrade		

Revision History

Version 1.0; April 5, 2018

Initial document version.

